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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

Department of Agriculture

JANUARY 1934

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D.C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Improving the farm environment for wild life. Wallace B. Grange and W. L. McAtee, Bureau of Biological Survey. 62 p., illus. (F.B. 1719F.) Price, 5¢.

Adobe or sun-dried brick for farm buildings. T. A. H. Miller, Bureau of Agricultural Engineering. 18 p., illus. (F.B. 1720F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the Leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Eradicating tuberculosis from poultry and swine. Elmer Lash, Bureau of Animal Industry. 8 p., illus. (Leaf. 102L.) Price, 5¢.

Quality guides in buying sheets and pillowcases. Ruth O'Brien, Bureau of Home Economics. 8 p., illus. (Leaf. 103L.) Price 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

The southwestern corn borer. E. G. Davis, J. R. Horton, C. H. Gable, E. V. Walter, R. A. Blanchard, and Carl Heinrich, Bureau of Entomology. 62 p., illus. (T.B. 388T.) Price, 10¢.

Design and operation of drainage pumping plants in the upper Mississippi Valley. John G. Sutton, Bureau of Agricultural Engineering. 60 p., illus. (T.B. 390T.) Price, 10¢.

The flow of water in flumes. Fred C. Scobey, Bureau of Agricultural Engineering. 99 p., illus. (T.B. 393T.) Price, 15¢.

A study of claypan soils. Irvin C. Brown, T. D. Rice, and Horace G. Byers, Bureau of Chemistry and Soils. 43 p. (T.B. 399T.) Price, 5¢.

Field and laboratory studies on the behavior of the larvae of the swine kidney worm, *Stephanurus dentatus*. L. A. Spindler, Bureau of Animal Industry. 18 p. (T.B. 405T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Distribution of the varieties and classes of wheat in the United States in 1929. J. Allen Clark and K. S. Quisenberry, Bureau of Plant Industry. 76 p. (Cir. 283C.) Price, 10¢.

The obscure scale on the pecan and its control. Howard Baker, Bureau of Entomology. 20 p., illus. (Cir. 295C.) Price, 5¢.

Strawberry dwarf. J. R. Christie and Neil E. Stevens, Bureau of Plant Industry. 8 p., illus. (Cir. 297C.) Price, 5¢.

Soil profile and root penetration as indicators of apple production in the lake shore district of western New York. A. T. Sweet, Bureau of Chemistry and Soils. 30 p., illus. (Cir. 303C.) Price, 5¢.

Trembles (or milk sickness). James Fitton Couch, Bureau of Animal Industry. 12 p., illus. (Cir. 306C.) Price, 5¢.

Control of aphids on alfalfa in the Antelope Valley, Calif. R. A. Blanchard, Bureau of Entomology. 7 p. (Cir. 307C.) Price, 5¢.

Comparison of Rambouillet, Corriedale, and Columbia sheep under intermountain range conditions. J. M. Cooper and John A. Stoehr, Bureau of Animal Industry. 16 p., illus. (Cir. 308C.) Price, 5¢.

#### STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Corn futures: Volume of trading, open commitments, and prices from January 2, 1930 to December 31, 1932. Grain Futures Administration. 99 p. (S.B. 43S.) Price, 10¢.

Stumpage and log prices for the calendar years 1931 and 1932. Henry B. Steer, Forest Service. 104 p. (S.B. 44S.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The crop and livestock reporting service of the United States. Prepared by the Bureau of Agricultural Economics. 104 p. (M.P. 171MP.) Price, 15¢.

The serphoid and chalcidoid parasites of the hessian fly. A. B. Gahan, Bureau of Entomology. 148 p., illus. (M.P. 174MP.) Price, 10¢.

Home demonstration work. Grace E. Frysinger, Extension Service. 14 p., illus. (M.P. 178MP.) Price, 5¢.

Food budgets for nutrition and production programs. Hazel K. Stiebeling. 15 p. (M.P. 183MP.) Price, 5¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

To prevent the spread of splenetic or tick fever in cattle. Effective on and after December 1, 1933. Bureau of Animal Industry. Rule 1, revision 32. 2 p. (B.A.I. Order 343.)<sup>1</sup>

Bureau of Animal Industry, Service and Regulatory announcements, November 1933, pp. 101-107. (S.R.A.-B.A.I. 319); December 1933, pp. 109-118. (S.R.A.-B.A.I. 320.) Price, 5¢ each.

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. (N.J., F.D. 20401-20550), pp. 211-274.<sup>1</sup>

Bureau of Plant Quarantine, Service and Regulatory Announcements, July-September 1933, pp. 197-244. (S.R.A.-B.P.Q. no. 116.)<sup>1</sup>

List of intercepted plant pests (July 1, 1932, to June 30, 1933). Bureau of Plant Quarantine. (S.R.A.B.P.Q.) 64 p.<sup>1</sup>

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 18, no. 1. January 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.<sup>2</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

**Experiment station record.** Vol. 68, Index number. January-June 1933. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

**Extension service review.** Vol. 4, no. 8, December 1933. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.<sup>2</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 47, no. 10. Illus. November 15, 1933.

Contents:

Estimated data on the energy, gaseous, and water metabolism of poultry for use in planning the ventilation of poultry houses. Key No. Ill.-57. H. H. Mitchell and M. A. R. Kelley.

Stewart's wilt disease of corn, with emphasis on the life history of *Phytomonas stewarti* in relation to pathogenesis. Key No. Wis.-59. S. S. Ivanoff.

Inheritance of characters in rice. Key No. G-874. Jenkin W. Jones.

Identity and host relations of the *Elsinoe* of lima bean. Key No. G-875. S. C. Bruner and Anna E. Jenkins.

Mode of entrance and periods in the life cycle of *Cronartium ribicola* on *Pinus monticola*. Key No. G-877. H. G. Lachmund.

Increase in growth of loblolly pines left after partial cutting. Key No. F-66. A. L. MacKinney.

**Monthly weather review.** Vol. 61, nos. 9 and 10, September and October 1933.

Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>2</sup> Not for general distribution.

**Public roads.** Vol. 14, nos. 10 and 11, December 1933 and January 1934. Price, 10¢ a copy, \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

**Weekly weather and crop bulletin.** Nos. 1-4, January 2-January 23, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

#### AGRICULTURAL ADJUSTMENT ADMINISTRATION PUBLICATIONS

Marketing agreement for milk—Chicago milk shed, Series 1. (M-1.) 32 p. Price, 5¢.

License for milk—Chicago milk shed. (M-2.) 32 p. Price, 5¢.

Marketing agreement for evaporated milk with amendment. (M-4.) 15 p. Price, 5¢.

Marketing agreement and license for cling peaches canned in the State of California. (M-5.) 36 p. Price, 5¢.

Marketing agreement for dry skim milk. (M-10.) 18 p. Price, 5¢.

Marketing agreement and license for fresh California deciduous tree fruits except apples. (M-11.) 12 p. Price, 5¢.

Marketing agreement and license for packers of walnuts grown in California, Oregon, and Washington. (M-12.) 28 p. Price, 5¢.

Indicate below, by numbers IN NUMERICAL ORDER, bulletins desired. In order to assure prompt delivery, detach this frank and return in stamped envelop to United States Department of Agriculture, Office of Information, Washington, D.C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D.C., enclosing remittance to cover cost of publication.

Farmer's Bulletins	Leaflets	Technical Bulletins	Circulars	Miscellaneous Publications	Other Publications

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

Marketing agreement for disposal of North Pacific wheat surplus. (M-13.) 14 p. Price, 5¢.

Marketing agreement and license for handlers of fresh California Tokay grapes. (M-15.) 15 p. Price, 5¢.

Marketing agreement for California rice industry. (M-21) 24 p. Price, 5¢.

Code of fair competition for the imported date packing industry. (M-23.) 12 p. Price, 5¢.

Marketing agreement for flue-cured tobacco. (M-26.) 8 p. Price, 5¢.

Code of fair competition for the southern rice milling industry. (M-29.) 7 p. Price, 5¢.

Code of fair competition for the distilled spirits industry. (M-30.) 8 p. Price, 5¢.

Code of fair competition for the alcoholic beverages importing industry. (M-31.) 8 p. Price, 5¢.

Code of fair competition for the brewing industry. (M-32.) 11 p. Price, 5¢.

Marketing agreement for the alcoholic beverages importing industry and license for the importers of alcoholic beverages. (M-33.) 14 p. Price, 5¢.

Code of fair competition for the distilled spirits rectifying industry. (M-34.) 9 p. Price, 5¢.

Code of fair competition for the alcoholic beverage wholesale industry. (M-35.) 14 p. Price, 5¢.

Marketing agreement for the distilled spirits industry and license. (M-36.) 13 p. Price, 5¢.

Marketing agreement and license for California ripe olive canning industry. (M-37.) 22 p. Price, 5¢.

Marketing agreement for citrus fruits grown in the State of Florida and license for shippers of citrus fruits grown in the State of Florida, including a national stabilization plan. (M-38.) 30 p. Price, 5¢.

Marketing agreement for oranges and grapefruit grown in the States of California and Arizona and license for shippers of oranges and grapefruit grown in the States of California and Arizona, including a national stabilization plan. (M-39.) 31 p. Price, 5¢.

Marketing agreement and license for shippers of oranges and grapefruit grown in the State of Texas, including a national stabilization plan. (M-42.) 35 p. Price, 5¢.

Code of fair competition for the wine industry. (M-43.) 14 p. Price, 5¢.

Code of fair competition for the commercial and breeder hatchery industry. (M-44.) 15 p. Price, 5¢.

Marketing agreement for Burley tobacco. (M-45.) 7 p. Price, 5¢.

Marketing agreement and license for Connecticut Valley shade-grown tobacco (U.S. Type 61). (M-46.) 17 p. Price, 5¢.

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## United States Department of Agriculture

### MONTHLY LIST OF PUBLICATIONS

FEBRUARY 1934

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#### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Larkspur or "poison weed." C. Dwight Marsh, A. B. Clawson, and Hadleigh Marsh, Bureau of Animal Industry. 13 p., illus. (F.B. 988F., rev.) Price, 5¢.

Tuberculosis in livestock: Detection, control, and eradication. Alexander E. Wight, Bureau of Animal Industry. 18 p., illus. (F.B. 1069F., slightly rev.) Price, 5¢.

Judging sheep. G. H. Bedell, Bureau of Animal Industry. 18 p., illus. (F.B. 1199F., rev.) Price, 5¢.

Diseases of cabbage and related plants. J. C. Walker, Bureau of Plant Industry. 29 p., illus. (F.B. 1439F., rev.) Price, 5¢.

Lettuce growing. W. R. Beattie, Bureau of Plant Industry. 30 p., illus. (F.B. 1609F., rev.) Price, 5¢.

Farm water power.—George M. Warren, Bureau of Agricultural Engineering. 22 p., illus. (F.B. 1658F., slightly rev.) Price, 5¢.

Important sugar-beet byproducts and their utilization. A. W. Skuderna, Bureau of Plant Industry and E. W. Sheets, Bureau of Animal Industry. 29 p., illus. (F.B. 1718F.) Price, 5¢.

The byproducts of the sugar-beet industry—beet tops, pulp, and molasses—constitute an important source of livestock feed. The different forms in which these byproducts are available and their value for livestock feeding and soil improvement are discussed in this bulletin.

#### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Effect on subsequent yields of storing cut seed potatoes at different temperatures and humidities. R. C. Wright, W. M. Peacock, and T. M. Whitman, Bureau of Plant Industry. 20 p. (T.B. 394T.) Price, 5¢.

This bulletin is the result of a study (1) To determine and compare the relative vigor of growth and yield from seed cut and stored in advance of planting with that from seed cut immediately before planting. (2) To compare the vigor and yield from seed pieces stored for different lengths of time at different temperatures and humidities.

Origin, distribution, and market price of the commercial watermelon crop. J. W. Strowbridge, Bureau of Agricultural Economics. 60 p. (T.B. 398T.) Price, 10¢.

Watermelons are an important cash crop in many of the Southern States. This bulletin contains statistical information as to areas of production, time and volume of the carload movement, sources of market supply, and volume of market demands—all to aid in solving the problems in marketing the crop of approximately 70 million melons annually.

Descriptions of some native trypetid flies with notes on their habits. Foster H. Benjamin, Bureau of Entomology. 96 p., illus. (T.B. 401T.) Price, 10¢.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The commercial storage of fruits, vegetables, and florists' stocks. Dean H. Rose, R. C. Wright, and T. M. Whiteman, Bureau of Plant Industry. 40 p. (Cir. 278C., slightly rev.) Price, 5¢.

Freezing of greenhouse-grown tomatoes in transit. R. C. Wright and T. M. Whitman, Bureau of Plant Industry. 8 p., illus. (Cir. 291C.) Price, 15¢.

Greenhouse-grown tomatoes are picked and marketed during the winter months and as they are fragile and tender they often arrive at the markets in a frozen condition. Accordingly tests were made to determine the effect on their appearance of actual freezing and also of a temperature not quite actually freezing.

The boxwood leaf miner and its control. William Middleton and Floyd F. Smith, Bureau of Entomology. 8 p., illus. (Cir. 305C.) Price, 5¢.

Describes the habits, work, and control of the boxwood leaf miner. Control of this insect is a community problem due to its rapid spread through infested boxwood.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

A dangerous neighbor, for wheat, oats, barley, and rye. Donald G. Fletcher, Bureau of Plant Industry. (folder). (M.P. 131MP., rev.) Price, 5¢.

Descriptions of types of principal American varieties of tomatoes. Victor R. Boswell, Bureau of Plant Industry; Oscar H. Pearson, California Agricultural Experiment Station; Paul Work, Cornell University; H. D. Brown and John H. MacGillivray, Purdue University Agricultural Experiment Station; H. L. Seaton and George E. Starr, Michigan Agricultural Experiment Station; J. J. Bayles, W. H. Friend, Leslie R. Hawthorn, and H. F. Morris, Texas Agricultural Experiment Station. 23 p., illus. (M.P. 160MP.) Price, 35¢.

Feeding and management investigations at the United States Dairy Experiment Station at Beltsville, Md.; 1932 report. T. E. Woodward, J. B. Shepherd, and R. R. Graves, Bureau of Dairy Industry. 51 p., illus. (M.P. 179MP.) Price, 5¢.

This report includes calf-feeding investigations, digestion experiments with dairy cows, studies on the condition of cows at calving time, a comparison of several bedding materials for dairy cattle, and pasture experiments for 1931-32.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Bureau of Animal Industry, Index to Service and Regulatory Announcements January-December 1933. pp. 119-121. p.<sup>1</sup>

Bureau of Animal Industry, Service and Regulatory Announcements, January 1934. 8 p. (S.R.A.-B.A.I. 321.) Price, 5¢ each.

Notices of Judgment under the Food and Drugs Act. Food and Drug Administration. pp. 335-388 (N.J.F.D. 20601-20725); pp. 389-416 (N.J.F.D. 20726-20750).<sup>1</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

**Japanese beetle quarantine.** Quarantine no. 48, revision of quarantine and regulations. Effective December 1, 1933. Bureau of Plant Quarantine. 12 p. (B.P.Q.-Q. 48, rev.)<sup>1</sup>

**Rice quarantine no. 55.** Revision of quarantine and regulations. Effective November 23, 1933. Bureau of Plant Quarantine. 4 p. (B.P.Q.-Q. 55, rev.)<sup>1</sup>

**Thurberia weevil quarantine.** Quarantine no. 61, revision of regulations. Effective October 2, 1933. Bureau of Plant Quarantine. 7 p. (B.P.Q.-Q. 61, rev.)<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

**Montana, lower Flathead Valley Area.** (Number 22, series 1929.) 48 p. Price, 35¢.

**Montana, Northern Plains (Reconnaissance).** (Number 21, series 1929.) 74 p. Price, 30¢.

**North Carolina, Montgomery County.** (Number 13, series 1930.) 34 p. Price, 20¢.

#### OTHER PUBLICATIONS

**A handbook of dairy statistics.** T. R. Pirtle, Bureau of Agricultural Economics. 129 p. Price, 10¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 18, no. 2, February 1, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 10, no. 12, December 1933; vol. 11, no. 1, January 1934. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record.** Vol. 70, nos. 1 and 2, January and February 1934. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

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Farmer's Bulletins	Leaflets	Other publications

**Extension service review.** Vol. 5, no. 1, January 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.<sup>2</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 47, no. 12. Illus. December 15, 1933.

**Contents:**

The nutritive value of alfalfa leaves and stems. Key No. Wash.-20. Jerry Sotola.

Effect of the ripening process of cheese on the nutritive value of the protein of milk curd. Key No. Ill.-58. Jessie R. Beadles, J. H. Quisenberry, F. I. Nakamura, and H. H. Mitchell.

The effect of egg products on the whipping properties of ice-cream mixes made from butter and dried skim milk. Key No. Pa.-45. C. C. Walts and C. D. Dahle.

Effect of method of sowing on the yield and root and top development of sweet-clover in the Red River Valley. Key No. Minn.-82. R. S. Dunham.

Temperature relations of wood-destroying fungi. Key No. G-880. C. J. Humphrey and P. V. Siggers.

Some details of muscle structure revealed by salt extraction. Key No. A-157 H. N. Baker, Hugh C. McPhee, and Paul E. Howe.

**Monthly weather review.** Vol. 61, no. 11, November 1933. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>2</sup> Not for general distribution.

**Weekly weather and crop bulletin.** Nos. 5-8, January 30-February 20, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

**AGRICULTURAL ADJUSTMENT ADMINISTRATION**

Alcoholic beverages regulations made by the Secretary of Agriculture under the marketing agreement and special permits under the license for the distilled spirits industry. Series 1. 6 p. (A.B.R.-1.)<sup>3</sup>

Questions and answers relating to the corn-hog production adjustment program and contract. 12 p. (C.H.-28.)<sup>3</sup>

The processing taxes on corn and hogs. 13 p. (C.H.-32.)<sup>3</sup>

Recovery from the grass roots. George N. Peek and Alfred D. Stedman. 10 p. (G-6.)<sup>3</sup>

The dairy dilemma. Henry A. Wallace. 13 p. (G-7.)<sup>3</sup>

Marketing agreement and license for peanut millers. Series 35. 19 p. (M-47.) Price, 5¢.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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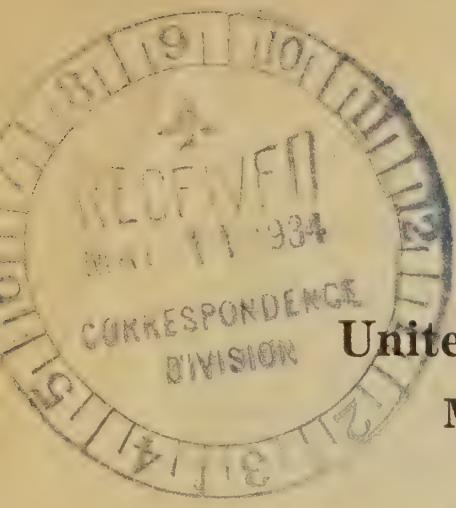
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These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Greenhouse construction and heating. James H. Beattie, Bureau of Plant Industry. 38 p., illus. (F.B. 1318F., rev.) Price, 5¢.

Diseases and insects of garden vegetables. W. W. Gilbert, Bureau of Plant Industry, and C. H. Poponoe, Bureau of Entomology. 46 p., illus. (F.B. 1371F., rev.) Price, 5¢.

The chinch bug and how to fight it. W. P. Flint and W. H. Larrimer, Bureau of Entomology. 18 p., illus. (F.B. 1498F., rev.) Price, 5¢.

Growing alfalfa. H. L. Westover, Bureau of Plant Industry. 30 p., illus. (F.B. 1722F.) Price, 5¢.

This crop succeeds best in a dry climate where water is available for irrigation. The best soils on the farm should be selected for the alfalfa field. Alfalfa is a pasture crop and its culture, for this reason, is of value to the farmer.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Pollination and blooming habits of the Persian walnut in California. Milo N. Wood, Bureau of Plant Industry. (T.B. 387T.) 56 p., illus. Price, 10¢.

The experiments were: (1) To ascertain the fertility and sterility of leading varieties; (2) to ascertain the relative time of the blooming of the flowers and the relation this might have to crop production; and (3) to determine what relation certain other pollination factors have to nut development and production.

Biology and control of tree hoppers injurious to fruit trees in the Pacific Northwest. M. A. Yothers, Bureau of Entomology. (T.B. 402T.) 46 p., illus. Price, 10¢.

In recent years considerable injury has been done by various species of *Membracidae*, commonly known as "tree hoppers." This injury was of such importance that life-history studies and control experiments were begun in 1923 and continued until 1928. This bulletin gives the results.

Hydrion concentration changes in relation to growth and ripening in fruits. Joseph S. Caldwell, Bureau of Plant Industry. (T.B. 403T.) 54 p., illus. Price, 5¢.

A report on comparative studies of the relations between changes in active acidity, on the one hand, and changes in volume and weight and in chemical composition, on the other hand, in a number of fruits of widely diverse character, representing widely separated botanical groups.

Experiments in growing roots as feed crops. H. L. Westover and H. A. Schoth, Bureau of Plant Industry. (T.B. 416T.) 15 p. Price, 5¢.

These experiments had as objectives: (1) A determination of the possibilities of obtaining profitable yields; (2) a comparison of productiveness of the different varieties under various soil and climatic conditions and (3) a consideration of the value of root crop as compared with corn silage as a source of succulence for feeding cattle.

## CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Uniformity of cotton fiber determined by field inspection.** O. F. Cook and A. Y. Willis, Jr. 24 p. (Cir. 310C.) Price, 5¢.

The attainment of uniform fiber is a problem that includes not only varietal characters, breeding methods, and effects of different conditions of growth but also the precautions that are necessary in harvesting, ginning, classing, and marketing a cotton of uniform quality. Some of the most important factors of uniformity are found in the field of production, and after all of the breeding precautions have been applied.

### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**The manufacture of low-acid rennet-type cottage cheese.** H. L. Wilson and C. S. Trimble, Bureau of Dairy Industry. (M.P. 119MP., rev.) 10 p., illus. Price, 5¢.

**Bibliography of chloropicrin, 1848-1932.** R. C. Roark, Bureau of Chemistry and Soils. 88 p. (M.P. 176MP.) Price, 10¢.

**Guide to the grading of structural timbers and the determination of working stresses.** T. R. C. Wilson, Forest Service. 27 p. (M.P. 185MP.) Price, 5¢.

Presents a generalized system for specifying the features that affect the strength of timbers together with a procedure for determining the working stresses appropriate to any grade. By aid of this data, individual pieces or lots of timber can be graded by the user or distributor, grade descriptions can be prepared by the lumber manufacturer, or user, and working stresses for grades can be determined or checked by the engineer, architect, or contractor.

**Reconnaissance erosion survey of the Brazos River watershed, Texas.** H. V. Geib, Bureau of Chemistry and Soils, and Ira T. Goddard, Oklahoma Agricultural Experiment Station. (M.P. 186MP.) 47 p., illus. Price, 10¢.

**Inspection of United States wheat exported through Canadian ports.** Bureau of Agricultural Economics. (M.P. 187MP.) 20 p. Price, 5¢.

A condensed discussion of the phase of the grain-export business of the United States through Canadian ports. It is hoped that it may prove useful in a final solution of this important problem.

### STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

**Grade and staple length cotton carried over in the United States as related to the domestic supply, 1928-29 to 1931-32.** W. B. Lanham and O. T. Weaver, Bureau of Agricultural Economics. (S.B. 45S.) 23 p., illus. Price, 5¢.

### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Bureau of Animal Industry, Service and Regulatory Announcements, February 1934.** pp. 9-23. (S.R.A.-B.A.I. 322). Price, 5¢ each.

**Notices of Judgment under the Food and Drugs Act.** Food and Drug Administration. (N.J., F.D. 20551-20600.) pp. 275-334.<sup>1</sup>

**Pink bollworm quarantine, Quarantine no. 52, revision of regulations.** Bureau of Plant Quarantine. 8 p. (B.P.Q.-Q. 52 rev.)<sup>1</sup>

**Bureau of Plant Quarantine, Service and Regulatory Announcements.** October-December 1933. pp. 245-299. (S.R.A.-B.P.Q. 117).<sup>1</sup>

**Standards under the Tea Act.** Effective May 1, 1934. Service and Regulatory Announcements, Tea No. 8. Food and Drug Administration. (S.R.A., T. No. 8.) 1 p.<sup>1</sup>

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<sup>1</sup> These may be obtained from the issuing bureau.

## OTHER PUBLICATIONS

Economic trends affecting agriculture. Louis H. Bean and Arthur P. Chew, Office of Information. 46 p. Price, 5¢.

Special administrative list of publications of the United States Department of Agriculture. M. A. Downes, Office of Information. 20 p.

## PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 18, no. 3, March 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 11, no. 2, February 1934. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

Experiment station record. Vol. 70, no. 3, March 1934. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 5, no. 2, February 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.<sup>2</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

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<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

Indicate below, by numbers IN NUMERICAL ORDER, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D.C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D.C., enclosing remittance to cover cost of publication.

Farmer's Bulletins	Leaflets	Other publications

Journal of agricultural research. Vol. 47, no. 11. Illus. December 1, 1933.

Contents:

- The time factor in fertilization and embryo development in the sugar beet (G-876).  
Ernst Artschwager and Ruth C. Starrett.
- Cytological features of *Nicotiana glutinosa* haplotypes (G-872) John Milton Webber.
- Liver-spot disease of pecan foliage caused by *Gnomonia caryaecae pecanae* nov. var. (G-878) J. R. Cole.
- Flooding to control root-knot nematodes. (No. L-2) Lloyd N. Brown.
- Cystine deficiency of soybean protein at various levels, in a purified ration and as a supplement to corn (Ind.-22). Charles L. Shrewsbury and John W. Bratzler.
- Plumage and eye color inheritance in the Single Comb Island Red Fowl (Kan.-71). D. C. Warren and C. D. Gordon.
- Recovery of phosphorus from prairie grasses growing on central Oklahoma soils treated with superphosphate (Okla.-22). H. F. Murphy.

— Vol. 48, no. 1. Illus. January 1, 1934.

Contents:

- Correlations between severity of pruning and subsequent growth and fruit yield of apricot trees (Calif.-65). H. S. Reed.
- Correlated inheritance of reaction to diseases and of certain botanical characters in triangular wheat crosses (G-881). Elmer R. Ausemus.
- Correlated inheritance of reaction to stem rust, leaf rust, bunt, and black chaff in spring-wheat crosses (G-879). H. K. Hayes, E. R. Ausemus, E. C. Stakman and R. H. Bamberg.
- Effect of washing on the keeping quality of hen's eggs (N.Y. (Cornell)-25). Reece L. Bryant and Paul Francis Sharp.
- A morphological study of blind and flowering rose shoots, with special reference to flower-bud differentiation (Ark.-19). D. S. Hubbell.

— Vol. 48, no. 2. Illus. January 15, 1934.

Contents:

- Zenillia libatrix* Panzer, a tachinid parasite of the gipsy moth and the brown-tail moth (K-245). Philip B. Dowden.
- Development of a standard cage method for testing the effectiveness of stomach-poison insecticides on the Japanese beetle (K-246). Walter E. Fleming.
- Frog-eye (*Cercospora diazu* Miura) on stems, pods, and seeds of soybean, and the relation of these infections to recurrence of the disease (N.C.-31). Samuel G. Lehman.
- Varietal differences in cotton boll shedding as correlated with osmotic pressure of expressed tissue fluids (Ariz.-9). R. S. Hawkins, S. P. Clark, Geo. H. Serviss, and Chas. A. Hobart.
- Border effect in irrigated plots of Marquis wheat receiving water at different times (Colo.-8). D. W. Robertson and Dwight Koonce.
- The influence of phosphorus deficiency in dairy cows on the coefficient of digestibility and the balance of calcium and phosphorus (Kan.-72). W. H. Riddell, J. S. Hughes, and J. B. Fitch.
- A study of the iodine content of Pennsylvania potatoes (Pa.-46). Donald E. H. Frear.
- Comparative value of some commercial protein supplements in the rations of growing chicks (Wash.-21). O. Johnson and D. Brazie.

Public roads. Vol. 14, no. 12, February 1934. Price, 10¢ a copy, \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 9-13, February 27-March 27, 1934. Price 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

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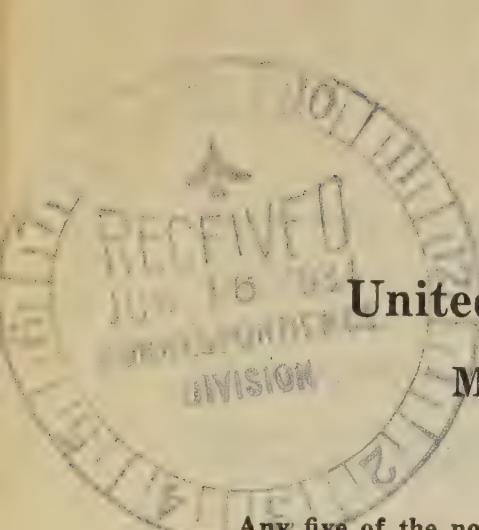
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# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

APRIL 1934

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D.C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Determining the age of farm animals by their teeth. George W. Pope, Bureau of Animal Industry. 14 p., illus. (F.B. 1721F.) Price, 5¢.

Livestock owners and buyers of market animals often find it desirable to determine the approximate age of the animals. This publication shows how to determine by the size and condition of the teeth the approximate age of farm animals from early life to maturity and, in many cases, even in old age.

Feeding, care, and management of young dairy stock. J. B. Shepherd and Fred W. Miller, Bureau of Dairy Industry. 33 p., illus. (F.B. 1723F.) Price, 5¢.

Describes in detail the proper feeding, breeding, and handling methods necessary for raising strong healthy calves that have an inheritance for high milk and butterfat production. The common ailments of calves are given, together with directions for their prevention.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

A study of the raw cotton and the yarn and sheeting manufactured from three grades of American upland cotton. Bureau of Agricultural Economics and the Bureau of Home Economics in cooperation with Clemson Agricultural College. 70 p., illus. (T.B. 406T.) Price, 10¢.

The procedure employed in the manufacture of the sheeting and the observations pertaining to the behavior of the cottons during manufacture and to some properties of the raw cottons and of their intermediate products, yarns, and fabrics are presented. The studies that deal with the serviceability and the resistance of the fabrics to ironing conditions are also reported.

Properties of white fir and their relation to the manufacture and uses of the wood. R. P. A. Johnson and M. R. Brundage, Forest Service. 77 p., illus. (T.B. 408T.) Price, 10¢.

The purpose of this bulletin is to furnish detailed information on the properties and characteristics of the wood of white fir, for the assistance of consumers and manufacturers in determining the suitability of this wood for specific uses.

Yield of second-growth western hemlock-Sitka spruce stands in southeastern Alaska. R. F. Taylor, Forest Service. 30 p., illus. (T.B. 412T.) Price, 5¢.

For the purpose of planning management in detail and allotting suitable areas to wood-using industries it is necessary to know approximately at least, the producing power of individual areas. This bulletin describes the results of such a study.

Effect of quantity and kinds of feed on economy of gains and body composition of hogs. N. R. Ellis and J. H. Zeller, Bureau of Animal Industry. 31 p., illus. (T.B. 413T.) Price, 5¢.

These studies indicate the influence of controlled feeding levels in comparative feeding experiments with respect to the effect of differences in intake of hogs on the efficiency of utilization of the ration.

Field studies on resistance of hybrid selections of oats to covered and loose smuts. T. R. Stanton, F. A. Coffman, and V. F. Tapke, Bureau of Plant Industry. 10 p. (T.B. 422T.) Price, 5¢.

Smuts take an estimated toll of approximately 45 million bushels of oats annually. Seed treatment is effective but is not practiced. Another method of reducing oat losses is by breeding and developing smut-resistant varieties, as here described.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Orchard insects of the Pacific Northwest and their control.** E. J. Newcomer, Bureau of Entomology. 77 p., illus. (Cir. 270C., rev.) Price, 10¢.

**The oriental flowering cherries.** Paul Russell, Bureau of Plant Industry. 72 p., illus. (Cir. 313C.) Price, 10¢.

Answers the questions that may arise in the minds of would-be growers of these trees, and includes all phases of information in regard to oriental flowering cherries, historical, cultural, botanical, and practical.

### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**List of available publications of the United States Department of Agriculture,** January 2, 1934. Compiled by F. L. Zimmerman, Office of Information. 113 p. (M.P. 60MP., rev.) Price, 10¢.

**The United States Department of Agriculture: Its structure and functions.** M. S. Eisenhower and A. P. Chew, Office of Information, with the assistance of officials in all the bureaus and offices of the Department. 177 p., illus. (M.P. 88MP., rev.) Price, 15¢.

**List of technical workers in the Department of Agriculture and outline of Department functions,** 1933. Personnel and Business Administration. 12 p. (M.P. 177MP.) Price, 10¢.

**List of bulletins of the agricultural experiment stations for the calendar years 1931 and 1932.** Catherine E. Pennington, Office of Experiment Stations. 77 p. (M.P. 181MP.) Price, 10¢.

**Synopsis of Federal plant quarantines affecting interstate shipments in effect January 1, 1934.** S. B. Fracker, R. A. Sheals, and M. A. Thompson, Bureau of Plant Quarantine. 135 p. (M.P. 189MP.) Price, 10¢.

This publication is prepared as a result of a demand from State nursery inspectors and others for the assembling and indexing of Federal plant quarantine regulations affecting the interstate shipment of plants, plant products, and other restricted articles.

**Present guides for household buying.** Ruth O'Brien and Medora M. Ward, Bureau of Home Economics. 32 p. (M.P. 193MP.) Price, 5¢.

Describes those guides which are of special interest to the ultimate consumer—that person who is buying things on the retail market for his own or his family's use.

### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Official grain standards of the United States for wheat, barley, oats, feed oats, mixed feed oats, rye and mixed grain,** July 2, 1934; for flaxseed, effective August 1, 1934; and for corn and grain sorghums, effective September 1, 1934. Bureau of Agricultural Economics. 31 p. (S.R.A.-B.A.E. no. 114.)<sup>1</sup>

**Notices of judgment under the Caustic Poison Act.** Food and Drug Administration. April 1934. 3 p. (N.J., C.P. 16-21.)<sup>1</sup>

**Notices of judgment under the Insecticide Act.** Food and Drug Administration. April 1934. (N.J., I.F. 1276-1295.) pp. 163-174.<sup>1</sup>

### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

**California, El Cajon Area.** (Number 15, series 1930.) 42 p., illus. Price, 25¢.

**North Carolina, Craven County.** (Number 23, series 1929.) 27 p., illus. Price, 50¢.

<sup>1</sup> These may be obtained from the issuing bureau.

## OTHER PUBLICATIONS

**Report of the Puerto Rico Agricultural Experiment Station, 1933.** 24 p., illus.  
Price, 5¢.

## PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 18, no. 4, February 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 11, no. 3, February 1934. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Extension service review.** Vol. 5, no. 3, March 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.<sup>2</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 48, no. 3. Illus. February 1, 1934.

## Contents:

- Studies on *Armillaria mellea* (Vahl) Quel., infection, parasitism, and host resistance (Calif.-66). Harold E. Thomas.
- Determination of hardiness in alfalfa varieties by their enzymatic responses. (G-882.) H. M. Tysdal.
- Cutting yields of hogs and index of fatness (A-159). K. F. Warner, N. R. Ellis, and Paul E. Howe.
- Physical characteristics of hog carcasses as measures of fatness (A-160). O. G. Hankins and N. H. Ellis.
- Factors affecting gladiolus in storage (G-884). J. I. Lauritzen and R. C. Wright.

<sup>2</sup> Payable to the Superintendent of Documents Government Printing Office, Washington, D.C.

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Farmer's Bulletins	Leaflets	Other publications

Journal of agricultural research. Vol. 48, no. 4. Illus. February 15, 1934.

Contents:

- Developmental anatomy and homologies in wheat (G-886). M. A. McCall.
- Self-fertilization in sugar beets as influenced by type of isolator and other factors (G-883). H. E. Brewbaker.
- Maize crossing values in second-generation lines (J-2). Robert L. Davis.
- Hyperparasitism in the case of some introduced Lepidopterous tree defoliators (K-247). A. B. Proper.
- The relation of "dark center" to the composition of rutabagas (Mass.-38). E. B. Holland and C. P. Jones.

Public roads. Vol. 15, no. 1, March 1934. Price, 10¢ a copy, \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 14-17, April 3-24, 1934. Price 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

**AGRICULTURAL ADJUSTMENT ADMINISTRATION**

The beef-cattle problem. Cattle and sheep section. 12 p. (Cattle no. 1).<sup>3</sup>

Agricultural adjustment: A report of administration of the Agricultural Adjustment Act May 1933 to February 1934. Agricultural Adjustment Administration. 393 p. (G.-8.) Price, 25¢.<sup>2</sup>

The citrus program under the Agricultural Adjustment Administration. E. W. Braun. 23 p. (G-9).<sup>3</sup>

Code of fair competition for the grain exchanges and members thereof. Approved by the President of the United States. Code of Fair Competition Series—Code no. 11. 10 p. (M-55.) Price, 5¢.<sup>2</sup>

Marketing agreement for fire-cured and dark air-cured tobacco, types 21, 22, 23, 24, and 36. Marketing Agreement Series—Agreement no. 41. 8 p. (M-56.) Price, 5¢.<sup>2</sup>

Code of fair competition for the live poultry industry of the Metropolitan Area in and about the City of New York. Approved by the President of the United States. Code of Fair Competition Series—Code no. 12. 19 p. (M-57.) Price, 5¢.<sup>2</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.  
<sup>2</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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## United States Department of Agriculture MONTHLY LIST OF PUBLICATIONS

MAY 1934

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Free distribution of technical material and periodicals is restricted.

Except in the case of exchanges, publications are not sent free to residents of foreign countries.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Bean growing in northern Idaho, eastern Washington, and eastern Oregon. Byron Hunter, Bureau of Agricultural Economics. 14 p., illus. (F.B. 1509F. rev.) Price, 5¢.

Farm practice with lespedeza. H. A. Miller, Bureau of Agricultural Economics. (F.B. 1724F.) 18 p., illus. Price, 5¢.

Based on information collected from farmers located in the States of Virginia, North Carolina, Tennessee, and Kentucky who are growing lespedeza regularly as a farm crop. This information includes methods of seeding, varieties used, the place in the cropping system usually occupied by lespedeza, and practices that have developed in connection with the production and use of the crop in these States.

Planning a subsistence homestead. Walter W. Wilcox, Bureau of Agricultural Economics. 20 p., illus. (F.B. 1733F.) Price, 5¢.

Deals chiefly with the economic problems that will be met by those people who are planning to combine part-time farming and wage earning.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Growth in selectively cut ponderosa pine forests of the Pacific Northwest. Walter H. Meyer, Forest Service. 64 p., illus. \* (T.B. 407T.) Price, 10¢.

Discusses briefly the essential factors affecting the growth and yield of uneven-aged stands. It also treats in some detail of the development of the single tree, showing the effect of such factors as tree class, site quality, and release distance.

The influence of precipitation and grazing upon black grama grass range. Enoch W. Nelson, Forest Service. (T.B. 409T.) 32 p., illus. Price, 5¢.

Presents the results of study, during the 13 years from 1915-27, inclusive, of the influence of the variable precipitation and several intensities of grazing on the black grama range type on the Jornada Experimental Range and adjacent public-domain range in southern New Mexico.

Experiments with forage crops at the Fort Hays Branch Station, Hays, Kans., 1913 to 1928. R. E. Getty, Bureau of Plant Industry. 92 p., illus. (T.B. 410T.) Price, 10¢.

The experiments described were conducted on upland soil under dry-farming conditions representative of an extensive area in the central Great Plains. Sorghums have had the leading place and the results are of most value to the northern part of the sorghum belt.

The nitrogen nutrition of tobacco. W. W. Garner, C. W. Bacon, J. D. Bowling, and D. E. Brown, Bureau of Plant Industry. 78 p., illus. (T.B. 414T.) Price, 10¢.

## CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Rural factory industries.** T. B. Manny and Wayne C. Nason, Bureau of Agricultural Economics. (Cir. 312C.) 35 p., illus. Price, 5¢.

Agencies interested in rural planning will do well to go very thoroughly into the possibility of locating small factories in localities where commercial agriculture cannot succeed in competition with the better lands, but where the existing farm population can find at least part-time employment while continuing food-raising activities for their own use.

**Changes in composition of American fertilizers, 1880-1932.** A. L. Mehring and A. J. Peterson, Bureau of Chemistry and Soils. (Cir. 315C.) 20 p., illus. Price, 5¢.

The results of an attempt to determine the extent of the changes that have occurred in the composition of mixed fertilizers during the past half century in the country as a whole and in the various States.

## MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**A bibliography of plant genetics.** Majorie F. Warner, Martha A. Sherman, and Esther M. Colvin, Bureau of Plant Industry. (M.P. 164MP.) 552 p. Price, 50¢.

The scope of the literature covered is comprehensive rather than definite, the main object of the list being to present the available material from a point of view which may serve the plant breeder and the student of genetics.

**Descriptions of types of principal American varieties of cabbage.** Victor R. Boswell and W. C. Edmundson, Bureau of Plant Industry; O. H. Pearson, California Agricultural Experiment Station; J. E. Knott and C. E. Myers, Pennsylvania Agricultural Experiment Station; R. A. McGinty, South Carolina Agricultural Experiment Station; W. H. Friend, Texas Agricultural Experiment Station; H. H. Zimmerley, Virginia Truck Experiment Station; J. C. Walker, University of Wisconsin. 22 p., illus. (M.P. 169MP.) Price, 40¢.

**A pasture handbook.** A. T. Semple, Bureau of Animal Industry; H. N. Vinall and C. R. Enlow, Bureau of Plant Industry; and T. E. Woodward, Bureau of Dairy Industry. With a foreword by Henry A. Wallace, Secretary of Agriculture. (M.P. 194MP.) 89 p., illus. Price, 10¢.

Wider use of pastures and meadows in our farming system would reduce the production of cash crops, conserve the fertility of the soil, diminish soil erosion, and, for agriculture as a whole, should produce increased net returns.

## SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Bureau of Animal Industry, Service and Regulatory Announcements, March 1934.** Pp. 25-32. (S.R.A.-B.A.I. 323); April 1934. Pp. 33-40. (S.R.A.-B.A.I. 324.) Price, 5¢ each.

**Notices of Judgment under the Food and Drugs Act.** Food and Drug Administration. Pp. 417-468. (N.J., F.D. 20751-20875.)<sup>1</sup>

## SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

**Iowa, Washington County.** (Number 17, series 1930.) 35 p., illus. Price, 30¢.

<sup>1</sup>These may be obtained from the issuing bureau.

**South Carolina, Greenwood County.** (Number 26, series 1929.) 31 p., illus. Price, 30¢.<sup>2</sup>

**Virginia, Grayson County.** (Number 19, series 1930.) 35 p., illus. Price, 25¢.

**West Virginia, Hardy and Pendleton Counties.** (Number 14, series 1930.) 47 p., illus. Price, 50¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 18, no. 5, May 1, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 11, no. 4, April 1934. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record.** Vol. 70, nos. 4 and 5, April and May 1934. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

**Journal of agricultural research.** Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.<sup>2</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 48, no. 5. Illus. March 1, 1934.

Contents:

- Size, shape, and orientation of plots and number of replications required in sweetpotato field-plot experiments (G-885). Ross C. Thompson.
- Uniformity in pathogenicity and cultural behavior among strains of the cabbage-yellows organism (G-887). L. M. Blank.
- Toxin produced by *Bacterium tabacum* and its relation to host range (G-889). E. E. Clayton.
- Characteristics of the piroplasms *Babesia argentina* and *B. bigemina* in the United States (A-158). Charles W. Rees.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

Indicate below, by numbers **IN NUMERICAL ORDER** bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D.C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D.C., enclosing remittance to cover cost of publication.

Farmer's Bulletins	Leaflets	Other publications

**Journal of agricultural research.—Continued.****Contents—Continued.**

The calcifying properties of green, artificially dried, and sun-cured pasture herbage (I-15). R. E. Hodgson and J. C. Knott.

Injury from calcium arsenate-hydrated lime spray on snap beans retarded in growth by unfavorable soil conditions (K-248). Loyd W. Brannon.

The effect of hypertonic sugar solutions on the thermal resistance of bacteria (Kans.-73). A. C. Fay.

The influence of lime on the reaction of subsoils (N.J.-27). A. W. Blair and A. L. Prince.

**Public roads.** Vol. 15, no. 2, April 1934. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

**Weekly weather and crop bulletin.** Nos. 18-21, May 1-May 22, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

**AGRICULTURAL ADJUSTMENT ADMINISTRATION**

Preliminary questions and answers covering the Bankhead Act. Agricultural Adjustment Administration. 12 p. (B.A.-1.)<sup>3</sup>

Working together in the corn-hog program. Remarks by Hon. H. A. Wallace, Secretary of Agriculture. \* \* \* broadcast \* \* \*. 4 p. (G-10.)<sup>3</sup>

The most complete agricultural recovery in history. The example of Denmark. Frederick C. Howe, Agricultural Adjustment Administration. 14 p. (G-11.)<sup>3</sup>

Code of fair competition for the linseed oil manufacturing industry. (Flaxseed crushing industry.) Approved by the President of the United States. Code of Fair Competition Series—Code no. 13. 24 p. (M-58.) Price, 5¢.<sup>2</sup>

Marketing agreement and license for the Florida celery industry. Marketing Agreement Series—Agreement no. 42. License Series—License no. 51. 21 p. (M-59.) Price, 5¢.<sup>2</sup>

Marketing agreement and license for shippers of package bees and queens produced in the United States. Marketing Agreement Series—Agreement no. 43. License Series—License no. 54. 16 p. (M-60.) Price, 5¢.<sup>2</sup>

Code of fair competition for the country grain elevator industry of the United States. Approved by the President of the United States. Code of Fair Competition Series—Code no. 14. 17 p. (M-61.) Price, 5¢.<sup>2</sup>

License for processors of wood turpentine and wood rosin. License Series—License no. 55. 9 p. (M-62.) Price, 5¢.<sup>2</sup>

Code of fair competition for the feed manufacturing industry. Approved by the President of the United States. Code of Fair Competition Series—Code no. 15. 16 p. (M-63.) Price, 5¢.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

JUNE 1934

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D.C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

Except in the case of exchanges, publications are not sent free to residents of foreign countries.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farms and farm home.

Pumping from wells for irrigation. Paul A. Ewing, Bureau of Agricultural Engineering. 29 p., illus. (F.B. 1404F., rev.) Price, 5¢.

Methods and costs of filling silos in the North Central States. Kenneth H. Myers, Bureau of Agricultural Economics. 22 p., illus. (F.B. 1725F.) Price, 5¢.

Based on data collected in 1928 and 1929 by the Farm Organization and Management, University of Illinois, in cooperation with the Bureau of Agricultural Economics. It is believed the conclusions are approximately applicable to most parts of the country where upright silos are used.

Selecting hens for egg production. J. P. Quinn, Bureau of Animal Industry. 18 p., illus. (F.B. 1727F.) Price, 5¢.

Research has indicated that there is no relationship between egg production and the measurements of the head and body. A hen's ability to lay is determined primarily by her breeding. A few years of intelligent selection will lead to the development of high-laying strains.

Growing barley for malt and feed. H. V. Harlan, Bureau of Plant Industry. 14 p., illus. (F.B. 1732F.) Price, 5¢.

The growing of barley should be continued on a healthy basis free from violent shifts of acreage on account of large premiums or lack of premiums for malting barley. The soundness and permanence of the barley acreage is dependent on the combined judgment of the individual planters.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

The external anatomy of the red date scale, *Phoenicococcus marlatti* Cockerell, and its allies. F. S. Stickney, Bureau of Entomology. 163 p., illus. (T.B. 404T.) Price, 15¢.

In addition to a detailed study of the external anatomy of *Phoenicococcus marlatti* and its 11 apparent relatives, this bulletin discusses those parts of some other coccids that appear to throw light on their relationships to the Phoenicoccini.

Western duck sickness: A form of botulism. E. R. Kalmbach, Bureau of Biological Survey and Millard F. Gunderson. University of Minnesota. 82 p., illus. (T.B. 411T.) Price, 10¢.

Recent investigations have removed the problem of duck sickness from the field of chemical toxicology to the realm of bacteriology. The disease has been associated definitely with the toxin of a common saprophytic bacterium, *Clostridium botulinum*, type C, an organism best known in the United States as a frequent cause of limberneck in poultry and forage poisoning in livestock.

Transmission of anaplasmosis by various species of ticks. Charles W. Rees, Bureau of Animal Industry. 18 p., illus. (T.B. 418T.) Price, 5¢.

The purpose of the investigations described in the bulletin was to determine whether other species of ticks prevalent over wide areas of the country might also be vectors of anaplasmosis.

Forage-crop field experiments at West Point, Miss. T. F. Akers and H. L. Westover, Bureau of Plant Industry. 20 p., illus. (T.B. 419T.) Price, 5¢.

These experiments have not been of sufficient duration to give conclusive results, but it is quite evident that the decline in yields and in longevity of stands is associated with the lack of available phosphorus, humus deficiency, and poor cultural practices.

**Fluctuations in prices of cotton futures contracts.** L. D. Howell, Bureau of Agricultural Economics. 22 p., illus. (T.B. 423H.) Price, 5¢.

This study was made to determine the extent and distribution of actual daily and weekly fluctuations in cotton futures prices. A period of 16 years was taken. The price data presented are confined to those for New York cotton futures contracts.

**Marketing cantaloups and other muskmelons.** J. W. Park, Bureau of Agricultural Economics. 51 p., illus. (T.B. 425T.) Price, 5¢.

The popularity and commercial importance of various varieties of cantaloups have changed rapidly during recent years. Efforts are now being made to develop varieties and methods of handling which will result in improvement of the quality of melons on the markets.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Some hybrid Martagon lillies.** David Griffiths, Bureau of Plant Industry. 15 p., illus. (Cir. 299C.) Price, 20¢.

The lilies described in this circular are first-generation hybrids. The breaking up of characters has been wonderfully diversified, giving a range of variation that would scarcely be expected.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**Descriptions of types of principal American varieties of garden peas.** D. N. Shoemaker, Bureau of Plant Industry, and E. J. Delwiche, Wisconsin Agricultural Experiment Station. 39 p., illus. (M.P. 170MP.) Price, 45¢.

**The hurricane.** I. R. Tannehill, Weather Bureau. 14 p., illus. (M.P. 197MP.) Price, 5¢.

The word "hurricane" is employed in its technical sense to mean a storm of tropical origin with cyclonic wind circulation, and refers more specifically to those which occur in the North Atlantic Ocean, the Gulf of Mexico, and the Caribbean Sea.

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

**California, Suisun area.** (Number 18, series 1930.) 60 p., illus. Price, 40¢.

**Maryland, Queen Annes County.** (Number 3, series 1931.) 24 p., illus. Price, 30¢.

**Nebraska, Dundy County.** (Number 1, series 1931.) 44 p., illus. Price, 25¢.

**Nebraska, Furnas County.** (Number 16, series 1930.) 33 p., illus. Price, 25¢.

**New York, Steuben County.** (Number 2, series 1931.) 62 p., illus. Price, 25¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 18, no. 6, June 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>1</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 11, no. 5, May 1934. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

gan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>1</sup>

**Experiment station record.** Vol. 70, no. 6, June 1934. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>1</sup>

A technical view of the world's scientific literature pertaining to agriculture.

**Extension service review.** Vol. 5, nos. 4 and 5, April and May 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>1</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.<sup>1</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 48, no. 6. Illus. March 15, 1934.

Contents :

Growth and injurious effects of *Cronartium ribicola* cankers on *Pinus monticola* (G-888). H. G. Lachmund.

Run-off and erosion from plots of different lengths (Kans.-74). F. L. Duley and F. G. Ackerman.

The absorption and evaporation of moisture from plant containers (Mass.-39). Linus H. Jones.

The relation between abnormal orientation of the 4-day embryo and position of the chick at hatching (Minn.-83). J. R. Cavers and F. B. Hutt.

Colorado and Virginia strains of codling moth in relation to their ability to enter sprayed and unsprayed apples (Va.-13). Walter S. Hough.

The nutritive value of the proteins of alfalfa hay and clover hay when fed alone and in combination with the proteins of corn (N.Y. (Cornell)-26). Kenneth L. Turk, F. B. Morrison, and L. A. Maynard.

— Vol. 48, no. 7. Illus. April 1, 1934.

Contents :

Relation of length of day to growth of timothy (G-890). Morgan W. Evans and H. A. Allard.

Distribution of oxygen and carbon dioxide in mushroom compost heaps as affecting microbial thermogenesis, acidity, and moisture therein. (G-892). Edmond B. Lambert and A. C. Davis.

Irregularities in the inheritance of the hairy-neck character transposed from *Secale* to *Triticum* (G-893). J. W. Taylor.

The comparative effectiveness, in the dairy ration, of supplements of phosphorus in the form of orthophosphoric acid, monosodium, disodium, trisodium phosphates, and bone meal (I-16). William A. Turner, Edward B. Meigs, Edward A. Kane, Leo A. Shinn, and Walter S. Hale.

Inheritance of resistance to loose smut in certain wheat crosses (Utah-31). D. C. Tingey and Bion Tolman.

The manganese content of grasses and alfalfa from grazed plots (Idaho-10). Donald W. Bolin.

— Vol. 48, no. 8. Illus. April 15, 1934.

Contents :

Plant-tissue relations of the sugar-beet curly-top virus (G-891). C. W. Bennett.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

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Farmers' Bulletins	Leaflets	Other publications

— Vol. 48, no. 8. Illus. April 15, 1934 (Continued).

Chemical composition and yield of the Alaska pea as influenced by certain fertilizers and by the stage of development (G-894). Samuel L. Jodidi and Victor R. Boswell.

Abnormalities in the flower and fruit of *Capsicum frutescens* N.Y. (Cornell-27). H. L. Cochran.

Soil treatment in relation to clubroot of cabbage. (Wis.-60). R. H. Larson and J. C. Walker.

Public roads. Vol. 15, no. 3, May 1934. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>1</sup>

Weekly weather and crop bulletin. Nos. 22-26, May 29-June 26, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>1</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

#### AGRICULTURAL ADJUSTMENT ADMINISTRATION

Crop insurance features of agricultural adjustment programs. 5 p. (G-12.)<sup>2</sup>

The weather, the farmers, and the nations food. Chester C. Davis, Administrator Agricultural Adjustment Act. 2 p. (G-13.)<sup>2</sup>

One year of the A.A.A.; the record reviewed. Chester C. Davis, Administrator Agricultural Adjustment Act. 8 p. (G-14.)<sup>2</sup>

Research and adjustment march together. Henry A. Wallace, Secretary of Agriculture. 2 p. (G-15.)<sup>2</sup>

Agriculture and foreign trade. Chester C. Davis, Administrator Agricultural Adjustment Act. 2 p. (G-16.)<sup>2</sup>

Agriculture and the consumer. Rexford G. Tugwell, Assistant Secretary of Agriculture. 2 p. (G-17.)<sup>2</sup>

Code of fair competition for the feed manufacturing industry. Approved by the President of the United States. Code of Fair Competition Series—Code no. 15. 16 p. (M-63.) Price, 5¢.<sup>1</sup>

Marketing agreement and license for packers of California raisins. Marketing agreement series—Agreement no. 44. License Series—License no. 59. 45 p., (M-64.) Price, 5¢.<sup>1</sup>

Marketing agreement and license for California date shippers. Marketing Agreement Series Agreement no. 45. License Series—License no. 61. 24 p. (M-65.) Price 5¢.

Marketing agreement for buyers of stemming grades of cigar-leaf tobacco: Types 41, 42, 43, 44, 51, 52, 53, 54, and 55. Marketing Agreement Series—Agreement no. 46. 6 p. (M-66.) Price, 5¢.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

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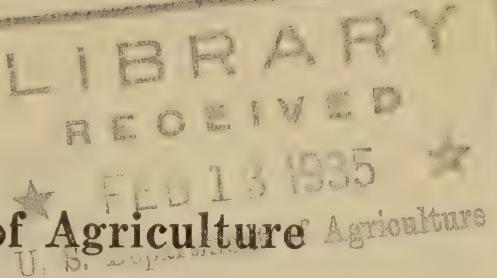
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# United States Department of Agriculture

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Except in the case of exchanges, publications are not sent free to residents of foreign countries.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

**Varieties of durum wheat.** J. Allen Clark, Bureau of Plant Industry. 13 p., illus. (F.B. 1706F.) Price, 5¢.

Describes briefly ten varieties of durum wheat grown commercially in the United States. These differ in their adaptation and yielding ability, resistance to rust and drought, and in the quality of their grain, as well as in their appearance.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

**Influence of storage temperatures on the rest period and dormancy of potatoes.**

R. C. Wright and Walter M. Peacock, Bureau of Plant Industry. 22 p., illus. (T.B. 424T.) Price, 5¢.

In this discussion, the term "rest period" in potato tubers refers to that period immediately following harvest during which they will not sprout even when kept under favorable growing conditions. On the other hand, if potatoes are held at a temperature too low for sprout growth they will remain in a dormant condition until they break down physiologically.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**The Dairee date, a promising Mesopotamian variety for testing in the Southwest.** Roy W. Nixon, Bureau of Plant Industry. 12 p., illus. (Cir. 300C.) Price, 5¢.

Notes were made on the botanical characters of the palms in the Coachella Valley, and a carefully preserved sample of the fruit was taken for comparison. An investigation was made in the Basra region, and after a study of both palms and fruit this date was identified as the Dairee described in this publication.

**Bulbs from seed.** David Griffiths, Bureau of Plant Industry. 32 p., illus. (Cir. 311C.) Price, 5¢.

Many of the species enumerated or described are not produced in the United States, or at least not in sufficient quantity to supply even the meager demand of the amateur gardeners who are just beginning to use them.

### DEPARTMENT CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletins. The series ended in 1927 and is succeeded by the Circular series.

**How lumber is graded.** H. S. Betts and R. K. Helphenstine, Jr., Forest Service. 48 p. (D.C. 64DC., rev.) Price, 5¢.

## MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department. The series closed with no. 110 and is replaced by the Miscellaneous Publications series.

**State sanitary requirements governing admission of livestock, revised to February 15, 1934.** Bureau of Animal Industry. 129 p. (M.C. 14MC., rev.) Price, 10¢.

## MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**Black currant spreads white-pine blister rust.** Samuel B. Detwiler, Bureau of Plant Industry. 8 p., illus. (M.P. 27 MP, rev.) Price 5¢.

**Roadside improvement.** Wilbur H. Simonson and R. E. Royall, Bureau of Public Roads. 35 p., illus. (M.P. 191 MP.) Price, 10¢.

In the past, highway engineers and officials have devoted their efforts to the extension of mileage of road construction, with only slight attention to aesthetic features. It is believed that a majority of our highway users now desire that highway improvement include the roadside as well as the road surface.

**Traps for the Japanese beetle and how to use them.** F. W. Metzger, Bureau of Entomology. 11 p., illus. (M.P. 201 MP.) Price, 5¢.

The purpose of this publication is to discuss the types of traps found to be most effective in catching beetles and to point out the proper method of placing and operating these devices to obtain the most satisfactory results.

## STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

**Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1931 and 1932.** Bureau of Agricultural Economics. 203 p. (S.B. 46S.) Price, 15¢.

## SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief description of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

**Texas, Frio County.** (Number 25, series 1929.) 38 p. Price, 30¢.

**Texas, trans-Pecos area, (Reconnaissance).** (Number 35, series 1928.) 66 p. Price, 35¢.

**Washington, Columbia Basin area, (Reconnaissance).** (Number 28, series 1929.) 55 p., illus. Price, 30¢.

## SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Bureau of Animal Industry, Service and Regulatory Announcements, May 1934.** Pp. 41-49. (S.R.A.-B.A.I. 325). Price, 5¢.

**Notices of Judgment under the Food and Drugs Act.** Food and Drug Administration. Pp. 469-525. (N.J., F.D. 20876-20950); pp. 527-549. (N.J., F.D., 20951-21000).<sup>1</sup>

**Bureau of Plant Quarantine, Service and Regulatory Announcements, January-March 1934.** 31 p. (S.R.A.-B.P.Q. 118.)<sup>1</sup>

**Bureau of Plant Quarantine, Service and Regulatory Announcements, Index.** (S.R.A.-B.P.Q. Index, 1933.) 3 p.<sup>1</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

## OTHER PUBLICATIONS

**Directory of the Bureau of Animal Industry, corrected to February 16, 1934.** 68 p.  
Price, 10¢.

**Plant material introduced by the Division of Foreign Plant Introduction, Bureau of Plant Industry, April 1 to June 30, 1932.** (Nos. 98257-100467). (B.P.I. Inventory 111). 93 p. Price, 10¢.

**Report of the Hawaii Agricultural Experiment Station, 1933.** 27 p., illus. Price, 5¢.

**Report on the agricultural experiment stations.** 78 p. Price, 10¢.

## PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 18, no. 7, July 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 11, no. 6, June 1934. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record.** Vol. 71, no. 1, July 1934. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

**Journal of agricultural research.** Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price 10¢. Reprints, 5¢ each.<sup>2</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 48, no. 9. Illus. May 1, 1934.

Contents:

Life history of the crown-gall organism in relation to its pathogenesis on the red raspberry (G-895). W. M. Banfield.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

Indicate below, by numbers IN NUMERICAL ORDER bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D.C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D.C., enclosing remittance to cover cost of publication.

Farmer's Bulletins	Leaflets	Other publications

**Journal of agricultural research—Continued.**

Chromosomes in hybrids between *Euchlaena perennis* and *Zea mays* (G-896).  
 A. E. Longley.  
 A bacterial disease of *Hedera helix* (G-897). Richard P. White and Lucia McCulloch.  
 Growth of chickens as a function of feed consumption (A-161). Harry W. Titus, Morley A. Jull, and Walter A. Hendricks.  
 Comparison of the pullorin and the rapid whole-blood agglutination tests for pullorum disease (A-163). Hubert Bunyea.  
 The distribution and condition of nitrogen in three horizons of a differentially fertilized Hagerstown clay loam soil planted to apple trees in metal cylinders (Pa.-47). Walter Thomas.

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— Vol. 48, no. 10. Illus. May 15, 1934.

**Contents:**

Life history of the hairy-root organism in relation to its pathogenesis on nursery apple trees (G-898). E. M. Hildebrand.  
 Seasonal development of hairy root, crown gall, and wound overgrowth on apple trees in the nursery (G-899). A. J. Riker and E. M. Hildebrand.  
 Hairy root, crown gall, and other malformations at the unions of piece-root-grafted apple trees and their control (G-900). A. J. Riker, G. W. Keitt, E. M. Hildebrand, and W. M. Banfield.  
 Technic for obtaining spermatozoa for physiological dairy studies and artificial insemination (I-17). Fred W. Miller and Everette I. Evans.  
*Aphelechoïdes xylophilus*, n. sp., a nematode associated with blue-stain and other fungi in timber (G-913). G. Steiner and Edna M. Buhrer.

Public roads. Vol. 15, no. 4, June 1934. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

**Weekly weather and crop bulletin.** Nos. 27-30, July 3-July 24, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

**AGRICULTURAL ADJUSTMENT ADMINISTRATION**

The farmers run their show. Chester C. Davis, Administrator, Agricultural Adjustment Act. 13 p., illus. (G-18).<sup>3</sup>

List of publications and other printed material of the Agricultural Adjustment Administration, May 12, 1933, to June 1, 1934. 25 p. (G-19).<sup>3</sup>

Code of fair competition for the wheat flour milling industry. Approved by the President of the United States. Code of Fair Competition Series—Code no. 16. 16 p. (M-67.) Price, 5¢.

Amended license for gum-turpentine and gum-rosin processors. License series—License no. 37 as amended. 14 p. (M-68.) Price, 5¢.

Code of fair competition for the wholesale fresh fruit and vegetable distributive industry. Approved by the President of the United States. Code of Fair Competition Series—Code no. 17. 18 p. (M-69.) Price, 5¢.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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# United States Department of Agriculture MONTHLY LIST OF PUBLICATIONS

AUGUST 1934

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Free distribution of technical material and periodicals is restricted.

Except in the case of exchanges, publications are not sent free to residents of foreign countries.

## FARMERS' BULLETINS

The red spider on cotton and how to control it. E. A. McGregor, Bureau of Entomology. 12 p., illus. (F. B. 831 F., rev.) Price, 5¢.  
Preventing damage by termites or white ants. T. E. Snyder, Bureau of Entomology. 22 p., illus. (F.B. 1472F., rev.) Price, 5¢.  
Flax-fiber production. B. B. Robinson, Bureau of Plant Industry. 26 p., illus. (F.B. 1728F.) Price, 5¢.  
Machinery for dusting cotton. R. C. Gaines, Bureau of Entomology, and D. A. Isler, Bureau of Agricultural Engineering. 14 p., illus. (F.B. 1729F.) Price, 5¢.

## LEAFLETS

Crested wheatgrass. H. L. Westover, Bureau of Plant Industry. 8 p., illus. (Leaf. 104L.) Price, 5¢.

One of the most promising dry-land grasses for eastern Oregon and Washington and northeastern California. In Colorado crested wheatgrass is reported to give good results as a pasture crop at altitudes of 5,000 feet or more, but it has not appeared promising at lower altitudes.

## TECHNICAL BULLETINS

Shortening the rest period of the potato. William Stuart and E. H. Milstead, Bureau of Plant Industry. 32 p., illus. (T.B. 415T.) Price, 5¢.

Studies upon which this report is based were primarily undertaken with a view to securing additional information in regard to varietal responses to chemical treatments for breaking the rest period.

Beef production and quality as influenced by crossing Brahman with Hereford and Shorthorn cattle. W. H. Black and A. T. Semple, Bureau of Animal Industry, and J. L. Lush, Texas Agricultural Experiment Station. 54 p., illus. (T.B. 417T.) Price, 10¢.

Though necessarily the data presented are based on averages for the experimental cattle, individual records of the animals and their meat varied materially. Such variations, in the light of well-established principles of animal breeding, strongly indicate the possibility of improving types of beef cattle both in feed-lot efficiency and quality of meat.

Shrinkage and heat penetration during the roasting of lamb and mutton as influenced by carcass grade, ripening period, and cooking method. Lucy M. Alexander, Bureau of Home Economics, and Nancy Griswold Clark, Bureau of Animal Industry. 27 p., illus. (T.B. 440T.) Price, 5¢.

An initial attempt to supply much-needed information. It presents data on different methods of roasting legs of lamb and mutton, ranging in grade from Choice to Cull and in ripening period from 2 to 24 days after slaughter.

## CIRCULARS

Community production of Acala cotton in New Mexico. A. R. Leding, Bureau of Plant Industry. 24 p., illus. (Cir. 314C.) Price, 5¢.

It has been demonstrated that by the adoption and maintenance of a good variety of cotton, which is well adapted to cultural conditions, commercial quantities of a uniform and high quality staple may be produced. Increased returns from the crop have been realized.

A new method of self-pollinating cotton. W. W. Ballard, Bureau of Plant Industry. 4 p., illus. (Cir. 318C.) Price, 5¢.

A new method of obtaining self-pollinated seed has been developed and tested at the United States Acclimatization Field Station near Charleston, S.C. This method, here described, is much more rapid and equally or more effective than methods formerly used.

**Outbreaks of the Dutch elm disease in the United States.** Curtis May, Bureau of Plant Industry, 19 p., illus. (Cir. 322C.) Price, 5¢.

This publication acquaints shade-tree owners, foresters, arborists, nurserymen, and others working with trees with the menace of the disease, and may stimulate them to forward specimens from unhealthy elms to State and Government laboratories for diagnosis, so that the distribution of the disease may be ascertained and control policies formulated at once to meet the situation.

**Protecting plants in the home yard from injury by the Japanese beetle.** W. E. Fleming, F. W. Metzger, and M. R. Osburn, Bureau of Entomology and Plant Quarantine. 13 p., illus. (Cir. 326C.) Price, 5¢.

#### DEPARTMENT CIRCULARS

**Parasites and parasitic diseases of dogs.** Maurice C. Hall, Emmett W. Price, and Willard H. Wright, Bureau of Animal Industry. 35 p., illus. (D.C. 338DC., rev.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

**Handbook of United States standards for grading and marketing fresh fruits and vegetables.** Bureau of Agricultural Economics. 168 p., illus. (M.P. 190MP.) Price, 15¢.

These standards are recommended by the Bureau of Agricultural Economics. Their use by all agencies engaged in the handling of such fruits and vegetables should promote more uniform grading and should facilitate the marketing of these products.

#### SOIL SURVEYS

**Indiana, Vermillion County.** (Number 20, series 1930.) 39 p., illus. Price, 20¢.

**Iowa, Poweshiek County.** (Number 29, series 1929.) 39 p. Price, 20¢.

**Michigan, St. Clair County.** (Number 27, series 1929.) 28 p., illus. Price, 35¢.

**Minnesota, Hennepin County.** (Number 24, series 1929.) 34 p., illus. Price, 30¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

**Regulations for warehousemen storing dried fruit under the United States Warehouse Act.** Bureau of Agricultural Economics. 20 p. (S.R.A.-B.A.E. 88, rev.)<sup>1</sup>

**United States standards for grades of canned grapefruit.** Bureau of Agricultural Economics. 5 p. (S.R.A.-B.A.E. no. 145.)<sup>1</sup>

**Regulations governing the elimination of cattle reacting to the blood test for Bang's disease (infectious abortion) under the provisions of Public No. 142, Seventy-third Congress.** Effective on and after July 19, 1934. Bureau of Animal Industry. 3 p. (B.A.I. Order 347.)<sup>1</sup>

**Bureau of Animal Industry, Service and Regulatory Announcements, June 1934.** Pp. 51-61. (S.R.A.-B.A.I. 326.) July 1934. Pp. 63-70. (S.R.A.-B.A.I. 327.) Price, 5¢ each.<sup>2</sup>

**Notices of Judgment under the Food and Drugs Act.** Food and Drug Administration. Pp. 1-74. (N.J.F.D. 21001-21175.)<sup>1</sup>

**Notices of Judgment under the Insecticide Act.** Food and Drug Administration. July 1934. Pp. 175-184. (N.J., I.F. 1296-1311.)<sup>1</sup>

**Cumulative index to Service and Regulatory Announcements Nos. 1 to 117 inclusive, 1914-33.** Bureau of Plant Quarantine. 68 p. Price, 10¢.<sup>2</sup>

#### OTHER PUBLICATIONS

**Yearbook of Agriculture, 1934.** Milton S. Eisenhower and Arthur P. Chew. 783 p., illus. For sale only. Price, \$1.00.

**Sugarcane variety P.O.J.2878 in Puerto Rico.** Robert L. Davis. (P.R. Bull. 35.) 45 p., illus. Price, 5¢.

This variety was introduced into Puerto Rico from Java in March 1927. Within 2 years after its introduction, the area on which the variety was grown had been extended to several thousand acres—a hasty extension which proved disastrous in some cases. In view of the contrasting climatic conditions in various parts of the island the behavior of this variety is discussed by localities.

#### PERIODICALS

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<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

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A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

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Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan.

**Extension service review.** Vol. 5, nos. 6 and 7, June and July 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price 10¢; 15¢, foreign. Reprints, 5¢ each.<sup>2</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 47. July 1-December 15, 1933. Title page, contents, and index. Pp. 1055-1064. Price, 5¢.

— Vol. 48, no. 11, Illus. June 1, 1934.

Contents:

Relation of barberry to the origin and persistence of physiologic forms of *Puccinia graminis* (G-902). E. C. Stakman, M. N. Levine, Ralph U. Cotter, and Lee Hines.

Size and arrangement of plots for yield tests with cultivated mushrooms (G-909). Edmund B. Lambert.

Magnesium, calcium, and iron requirements for growth of *Azotobacter* in free and fixed nitrogen (H-25). C. Kenneth Horner and Dean Burk.

The normal development of the leg bones of chickens with respect to their ash content (A-162). H. M. Harshaw, J. C. Fritz, and Harry W. Titus.

The lethal effect of low temperatures on the various stages of the confused flour beetle (Minn.-84). Roy H. Nagel and Harold H. Shepard.

Increase of kernel weight in common wheat due to black-point disease (N.Dak.-8). L. R. Waldron.

A statistical study of the relationships between the constituents of milk (Pa.-48). Alex Black and LeRoy Voris.

Influence of calcium phosphorus intake on bovine blood (Utah-32). J. E. Greaves, E. J. Maynard, and Wendell Reeder.

Survival of blister-rust mycelium in western white pine (G-908). H. G. Lachmund and J. R. Hansbrough.

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Farmers' Bulletins	Leaflets	Other publications

**Journal of agricultural research.** Vol. 48, no. 12, Illus. June 15, 1934.

Contents:

- Effect of leaf rust (*Puccinia triticina*) on yield, physical characters, and composition of winter wheats (G-905). Ralph M. Caldwell, H. R. Kraybill, J. T. Sullivan, and Leroy E. Compton.
- Inheritance of resistance to loose smut and covered smut in some oat hybrids (G-903). T. R. Stanton, George M. Reed, and F. A. Coffman.
- Testing alfalfa for resistance to bacterial wilt (G-906). Fred Reuel Jones.
- A gall similar to crown gall, produced on *Gypsophila* by a new *Bacterium* (G-912). Nellie A. Brown.
- Experiments on earovizing corn (G-914). George F. Sprague.
- The microbial decomposition of successive cuttings of alfalfa hay under aerobic conditions (E-55). E. A. Beavens and L. H. James.
- Press fluid from heated beef muscle (Minn.-85). Alice M. Child and Mary Baldelli (Minn.-85).
- Carbon dioxide formation by clean and scabby potatoes (Vt.-5). B. F. Lutman.

**Public roads.** Vol. 15, no. 5, July 1934. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

**Weekly weather and crop bulletin.** Nos. 31-35, July 31-August 28, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

#### AGRICULTURAL ADJUSTMENT ADMINISTRATION

**The Agricultural Adjustment Act and its operation.** (Revised) 13 p. (G-1).<sup>3</sup>

**Code of fair competition for the auction and loose leaf tobacco warehouse industry.**

Approved by the President of the United States. Code of Fair Competition Series—Code no. 18. 20 p. (M-70.) Price, 5¢.

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**License for agents, factors, and commission merchants engaged in marketing, handling, or distributing crude gum, cleaned gum, gum turpentine, and/or gum rosin.** License series—License no. 77. 7 p. (M-72.) Price, 5¢.

**Marketing agreement and license for canners of cling peaches grown in the State of California.** Marketing agreement series—agreement no. 47. License series—License no. 75. 35 p. (M-73.) Price, 5¢.

**Marketing agreement and license for shippers of fresh lettuce, peas, and cauliflower grown in western Washington.** Marketing agreement series—agreement no. 49. License series—License no. 79. 30 p. (M-74.) Price, 5¢.

**Amendment to marketing agreement and amended license for southern rice milling industry.** Marketing agreement series—agreement no. 39. License series—License no. 11. 62 p. (M-76.) Price, 10¢.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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## MONTHLY LIST OF PUBLICATIONS

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### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farms and farm home.

Potato production in the South. William Stuart, Bureau of Plant Industry. 30 p., illus. (F. B. 1205F., rev.) Price, 5¢.

Storage of sweetpotatoes. H. C. Thompson. Revised by Victor R. Boswell and J. H. Beattie, Bureau of Plant Industry. 28 p., illus. (F. B. 1442F., rev.) Price, 5¢.

### LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Quality guides in buying ready-made dresses. Clarice L. Scott, Bureau of Home Economics. 8 p. (Leaf. 105L.) Price, 5¢.

Most of the labels now attached to ready-made clothes give little help, and few merchants have definite information about the quality of their goods. As a guide to better buying, the more important points to consider in selecting ready-made dresses are summarized in these pages.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Poplars, principal tree willows and walnuts of the Rocky Mountain region. George B. Sudworth, Forest Service. 112 p., illus. (T. B. 420T.) Price, 10¢.

Discusses certain of the hardwoods of this region. Effort has been made to supplement the text descriptions as fully and as accurately as possible by keys and illustrations. The nomenclature is that established as official for the Forest Service, as presented in the Check List of the Forest Trees of the United States.

The use of naphthalene against the Japanese beetle. Walter E. Fleming and Francis E. Baker, Bureau of Entomology. 28 p. (T. B. 427T.) Price, 5¢.

In the control of the Japanese beetle, the authors have attempted to bring together experimental data and pertinent facts relating to the use of naphthalene against this insect. As a result of these investigations a quarantine procedure for destroying the immature stages of the beetle was adopted in March 1929 and has been in operation ever since.

Comparison of scabbed barley, normal barley, and yellow corn in diets for laying chickens. Harry W. T. tus and A. B. Godfrey, Bureau of Animal Industry. 10 p., illus. (T. B. 435T.) Price, 5¢.

These experiments show that the diets which contained corn were the most efficient; scabbed barley whether slightly, moderately, or very badly scabbed, may be expected to give essentially the same results as normal barley.

The effect of homogenization on certain characteristics of milk. C. J. Babcock, Bureau of Dairy Industry. 12 p., illus. (T. B. 438T.) Price, 5¢.

The milk consumers of the United States have associated cream line with quality for so long that undoubtedly it will be many years before the practice of homogenizing market milk becomes general. It can be safely predicted, however, that the practice will gradually be extended.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Report on a preliminary field survey of the so-called "alkali disease" of livestock. Kurt W. Franke, South Dakota Agricultural Experiment Station, T. D. Rice, Bureau of Chemistry and Soils, A. G. Johnson, Bureau of Plant Industry, and H. W. Schoening, Bureau of Animal Industry. 10 p., illus. (Cir. 320C.) Price, 5¢.

As early as May 1931 it was suggested that possibly this disease might be caused by traces of selenium absorbed by plants from the soils of the areas in question. Indications are that this suggestion is correct. This circular is restricted to an historical summary and the results of the survey.

**Studies on handling sugarcane frozen early in March in advanced stages of development.** George Arceneaux and R. B. Bisland, Bureau of Plant Industry. 8 p. (Cir. 324C.) Price, 5¢.

The results of experimental studies on methods of handling the frozen cane recorded herein should prove valuable in the event of occurrence of a similar situation.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**Macrolepidoptera and their parasites reared from field collections in the northeastern part of the United States.** J. V. Schaffner, Jr., and C. L. Griswold, Bureau of Entomology. 160 p. (M. P. 18SMP.) Price, 15¢.

Presents a resume of data obtained from the studies of macrolepidoptera and their parasites so that it will be available to investigators, teachers, and students of biological control, as well as to others interested in the subject.

**A review of the patents and literature on the manufacture of potassium nitrate with notes on its occurrence and uses.** Colin W. Whittaker and Frank O. Lundstrom, Bureau of Chemistry and Soils. 54 p. (M. P. 19MP.) Price, 5¢.

Discusses briefly the history and occurrence of potassium nitrate and describes the various processes in actual or prospective use for its preparation.

**Barley diseases controlled by seed treatment.** R. W. Leukel and V. F. Tapke, Bureau of Plant Industry. [4] p., illus. (M. P. 199MP.) Price, 5¢.

A brief description of covered smut, brown loose smut, black loose smut, stripe, and seedling blight due to scab-infected seed. Directions are given for applying the different seed treatments effective in their control.

**Federal legislation, rulings, and regulations affecting the State Agricultural Experiment Stations.** Office of Experiment Stations. 36 p. (M. P. 202MP.) Price, 5¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Migratory Bird Treaty Act regulations and text of Federal laws relating to game and birds.** Bureau of Biological Survey. 21 p. (S. R. A.-B. S. 79.)<sup>1</sup>

**Rice Quarantine no. 55, revision of regulation 6.** Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q.-Q. 55).<sup>1</sup>

**Notices of Judgment under the Food and Drugs Act, Food and Drug Administration.** Pp. 75-142 (N. J., F. D. 21176-21250.); pp. 143-246. (N. J., F. D. 21251-21500.); pp. 1-21. (N. J., F. D. 22001-22025.).<sup>1</sup>

#### OTHER PUBLICATIONS

**Plant material introduced by the Division of Foreign Plant Introduction, Bureau of Plant Industry, July 1 to September 30, 1932 (Nos. 100408-101157).** (B. P. I. Inventory 112.) 29 p. Price, 5¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 18 no. 9, September 1, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 10, 1933, Index; vol. 11, no. 8, August 1934. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

**Experiment station record.** Vol. 69, Index number; vol. 71, no. 2, August 1934.

Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

**Extension service review.** Vol. 5, no. 8, August 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>3</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 15¢; 20¢, foreign. Reprints, 5¢ each.<sup>3</sup>

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 49, no. 1. Illus. July 1, 1934.

**Contents:**

- Oil retention, oil-emulsifier ratio, and oil-water ratio as affecting the insecticidal efficiency of emulsions (K-249). A. W. Cressman and Lynn H. Dawsey.
- Changes in total nitrogen content during the life of the imago of the worker honeybee (K-250). Mykola H. Haydak.
- Testing contact insecticides on the Japanese beetle, and results with some sodium and potassium soaps (K-251). Walter E. Fleming and Francis E. Baker.
- The effectiveness of stomach-poison insecticides on the Japanese beetle (K-252). Walter E. Fleming and Francis E. Baker.
- Effect of failure of pollination on composition of corn plants (G-901). Arthur M. Brunson and W. L. Latshaw.
- Soft scald and soggy break-down of apples (G-904). Charles Brooks and C. P. Harley.
- The occurrence of ferrous iron in phosphate rock (E-54). H. L. Marshall.
- Beaufort scale of wind force as adapted for use on forested areas of the northern Rocky Mountains (F-67). George M. Jemison.
- An outbreak of fowl plague in New Jersey in 1929 (N. J.-28). F. R. Beaudette, C. B. Hudson, and A. Howard Saxe.

— Vol. 49, no. 2. Illus. July 15, 1934.

**Contents:**

- Seasonal development of *Ribes* in relation to spread of *Cronartium ribicola* in the Pacific Northwest (G-910). H. G. Lachmund.
- Some improvements in auto-irrigator apparatus (G-911). L. A. Richards and H. L. Blood.
- Anthesis, pollination, and fertilization in *Sorghum* (G-915). J. C. Stephens and J. R. Quinby.
- Studies on the fermentation of tobacco (Wis.-61). James Johnson.
- The nutritive value of green, immature soybeans (J-3). Carey D. Miller and Ruth C. Robbins.
- The nutritive properties of protein, vitamins B and G, and the germ in rye (Minn.-87). D. W. Johnson and L. S. Palmer.
- Resistance to common bean mosaic in the Great Northern field bean (Idaho-11). W. H. Pierce.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Indicate below, by numbers IN NUMERICAL ORDER, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelop to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication.

Farmers' Bulletins	Leaflets	Other publications

Journal of Agricultural Research. Vol. 49, no. 3. Illus. August 1, 1934.

Contents:

- Variability in *Pythium arrhenomanes* in relation to root rot of sugarcane and co n (G-918). R. D. Rands and Ernest Dopp.
- Chromosome number and meiotic behavior in *Gossypium* (G-907). J. M. Webber.
- Damage to *Pinus monticola* by *Cronartium ribicola* at Garibaldi, British Columbia (G-916). H. G. Lachmund.
- Relation of the potato flea beetle to common scab infection of potatoes (G-917). L. A. Schaal.
- Results of transplanting gonadal tissue in dairy cows and bulls (I-18). Fred W. Miller, R. R. Graves, and G. T. Creech.
- The cystine, tryptophane, and tyrosine content of the soybean (E-56). Frank A. Csonka and D. Breese Jones.

— Vol. 49, no. 5, Illus. September 1, 1934.

Contents:

- Nature of injury to forage legumes by the potato leaf hopper (G-921). Howard W. Johnson.
- Parasitism of *Rhizoctonia solani* on sugar beet (G-920). E. L. LeClerg.
- The influence of inheritance and environment on the milk production and butterfat percentage of Jersey cattle (Me.-22). John W. Gowen.
- Inoculations showing the wide host range of *Botryosphaeria ribis* (Calif.-67). Clayton O. Smith.

Public roads. Vol. 14, March 1933–February 1934, Index; vol. 15, no. 6, August 1934. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 36–39, September 4–25, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

**AGRICULTURAL ADJUSTMENT ADMINISTRATION**

Achieving a balanced agriculture. 52 p., illus. (G-20.)<sup>3</sup>

A charted course toward stable prosperity. Henry A. Wallace. 11 p. (G-23.)<sup>3</sup>

Marketing agreement, amendment to marketing agreement, and license for shippers of potatoes grown in Florida, Georgia, South Carolina, North Carolina, Virginia, and Maryland. Marketing agreement series—Agreement no. 48. License series—License no. 76. 37 p. (M-75.) Price, 5¢.<sup>3</sup>

Marketing agreement and license for shippers of Florida strawberries. Marketing agreement series—Agreement no. 50. License series—License no. 81. 20 p. (M-77.) Price, 5¢.<sup>2</sup>

Marketing agreement and license for handlers of California Gravenstein apples. Marketing agreement series—Agreement no. 51. License series—License no. 82. 28 p. (M-78.) Price, 5¢.<sup>2</sup>

Marketing agreement and license for the watermelon industry in the Southeastern States (Florida, South Carolina, North Carolina, and Georgia). Marketing agreement series—Agreement no. 52. License series—License no. 83. 27 p. (M-79.) Price, 5¢.<sup>2</sup>

Marketing agreement and license for dried prunes produced in the State of California. Marketing agreement series—Agreement no. 53. License series—License no. 87. 75 p. (M-80.) Price, 10¢.<sup>3</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

OCTOBER 1934

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Free distribution of technical material and periodicals is restricted.

Except in the case of exchanges, publications are not sent free to residents of foreign countries.

### FARMERS' BULLETINS

Rabbit production. Frank G. Ashbrook and Chas. E. Kellogg, Bureau of Biological Survey. 38 p., illus. (F. B. 1730FB.) Price, 5¢.

These recommendations are based largely on findings at the United States Rabbit Experiment Station, established and maintained at Fontana, Calif., by the Bureau of Biological Survey, in cooperation with the Fontana Farms Co. and local rabbit breeders.

✓ Alfalfa varieties in the United States. H. L. Westover, Bureau of Plant Industry. 14 p., illus. (F. B. 1731FB). Price, 5¢.

Some alfalfas give best results in the North, where the winters are cold and the days are long during the growing season, while others do better in the extreme South, where the winters are mild and the days during the summer are shorter than in the Northern States. Four groups are described in this bulletin.

Farmhouse plans. Wallace Ashby, Bureau of Agricultural Engineering. 70 p., illus. (F. B. 1738F.) Price, 10¢.

The purpose of this bulletin is to supply plans for low-cost farm dwellings designed to meet the requirements of the farm operator and his family.

Game laws for the season 1934-35. A summary of the provisions of Federal, State, and Provincial Statutes. H. P. Sheldon and Frank G. Grimes, Bureau of Biological Survey. 38 p. (F. B. 1742FB.) Price, 5¢.

### LEAFLETS

Poisoning of livestock by plants that produce hydrocyanic acid. James F. Couch, Bureau of Animal Industry. 4 p. (Leaf. 88L., rev.) Price, 5¢.

Prevent storage rots of sweetpotatoes. J. I. Lauritzen and L. L. Harter, Bureau of Plant Industry. 5 p., illus. (Leaf. 106L.) Price, 5¢.

### TECHNICAL BULLETINS

Pile trestles as channel obstructions. David L. Yarnell, Bureau of Agricultural Engineering. 26 p., illus. (T. B. 429T.) Price, 10¢.

Presents the results of 1,082 experiments on the effect of clean pile trestles; that is, pile trestles free of any debris in obstructing the flow of water made at the hydraulic laboratory of the University of Iowa at Iowa City, Iowa, during 1929 and 1930.

Refrigerated transportation of Bartlett pears from the Pacific Northwest. E. D. Mallison and C. L. Powell, Bureau of Plant Industry, 30 p., illus. (T. B. 434TB.) Price, 5¢.

Deals with the factors affecting the cost of transporting precooled Bartlett pears and the effectiveness of different methods of refrigerating the fruit in transit.

Application of steam in the sterilization of soils. Arthur H. Senner, Bureau of Agricultural Engineering. 20 p., illus. (T. B. 443TB.) Price, 5¢.

Soil sterilization as a means of protecting a crop against certain soil-borne diseases is practiced by greenhouse vegetable growers throughout the country. It is also an effective method of combating the nematode, and for the control of certain insects which pass part of their life cycle in the soil.

Market distribution of car-lot shipments of fruits and vegetables in the United States. J. W. Park, Bureau of Agricultural Economics. 30 p., illus. (T. B. 445TB.) Price, 5¢.

Analyzes the available statistics on market distribution of car-lot shipments. The regularity of distribution to various markets, the distance of origin of supply from important markets, the relative importance of various commodities in the supply of different cities, and other pertinent phases are discussed.

## CIRCULARS

**Agronomic evaluation tests on mechanical blocking and cross cultivation of sugar beets.** A. W. Skuderna, H. E. Brewbaker, C. E. Cormany, C. A. Lavis, S. B. Nuckols, Charles Price, F. R. Immer, J. O. Culbertson, and G. W. Deming, Bureau of Plant Industry; E. M. Mervine, Bureau of Agricultural Engineering. 23 p., illus. (Cir. 316C.) Price, 5¢.

Deals principally with the agronomic results obtained in the mechanical-blocking and cross-cultivating-of-beets project, which has been studied from the point of view of both the agricultural engineer and the agronomist.

**Field experiments with vernalized wheat.** H. H. McKinney, W. J. Sando, Arthur F. Swanson, Vincent C. Hubbard, Glenn S. Smith, Coit A. Suneson, and Joe L. Sutherland, Bureau of Plant Industry. 8 p. (Cir. 325C.) Price, 5¢.

Describes the experiments conducted during 1933, in order to obtain information on any possible commercial usefulness that might be derived from the vernalization of certain standard varieties of winter and spring wheats before seeding in the spring.

## MISCELLANEOUS PUBLICATIONS

**Bibliography on land settlement with particular reference to small holdings and subsistence homesteads.** Compiled by Louise O. Bercaw, A. M. Hannay, Esther M. Colvin, and Mary G. Lacy, Bureau of Agricultural Economics. 492 p. (M. P. 172MP.) Price, 50¢.

An attempt to collect references to agricultural land settlement in the United States and in foreign countries which are likely to be useful to those interested in the literature of subsistence homesteads, small holdings, and land settlement as relief for unemployment.

**Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1933-34.** Mary A. Agnew, Office of Experiment Stations. 110 p. (M. P. 180MP.) Price, 10¢.

**An annotated bibliography of the hessian fly, *Phytophaga destructor* (Say).** J. S. Wade, Bureau of Entomology and Plant Quarantine. 100 p. (M. P. 198MP.) Price, 10¢.

Presents in a form as condensed as is feasible an annotated bibliography of the hessian fly, *Phytophaga destructor*, (Say), with special reference to the literature relating to the insect within its areas of distribution in North America north of Mexico, to June 30, 1933.

**The naval stores station of the Bureau of Chemistry and Soils.** F. P. Veitch, Bureau of Chemistry and Soils. 11 p., illus. (M. P. 206MP.) Price, 5¢.

Describes the buildings and equipment of the station, also its purpose and program. In addition, some of the accomplishments of the Bureau of Chemistry and Soils in its work on naval stores are listed.

**Status of waterfowl in 1934.** W. B. Bell and E. A. Preble, Bureau of Biological Survey. 18 p., illus. (M. P. 210MP.) Price, 5¢.

The present favorable breeding ranges in the United States and in Canada are not now occupied by nesting birds in numbers anywhere nearly approaching their potential capacity. This suggests the necessity of practical means by which the waterfowl population may be built up to a reasonable degree of abundance.

## SERVICE AND REGULATORY ANNOUNCEMENTS

**Items relating to the administration of the United States Cotton Standards and Cotton Futures Acts.** Bureau of Agricultural Economics. 21 p. (S. R. A.-B. A. E. 146.)<sup>1</sup>

**Regulations governing the appraisement of and compensation for tuberculous cattle condemned and destroyed under the provisions of Public No. 142, Seventy-Third Congress.** Effective on and after June 12, 1934. (B. A. I. Order 344.)

**Bureau of Animal Industry, Service and Regulatory Announcements, August 1934.** Pp. 71-77. (S. R. A.-B. A. I. 328.) September 1934. Pp. 79-85. (S. R. A.-B. A. I. 329.) Price, 5¢ each.

**Revision of sugarcane quarantine no. 15 (foreign).** Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.-Q. 15.)<sup>1</sup>

**Revision of notice of quarantine no. 19 on account of citrus canker and other citrus diseases.** Effective September 1, 1934. Bureau of Entomology and Plant Quarantine. (B. E. P. Q.-Q. 19.)<sup>1</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

Gypsy moth and brown-tail moth quarantine (quarantine no. 45). Revision of regulations, effective October 2, 1934. Bureau of Entomology and Plant Quarantine. 8 p. (B. E. P. Q.-Q. 45.)<sup>1</sup>

Bureau of Plant Quarantine, Service and Regulatory Announcements, April-June 1934. Pp. 33-57. (S. R. A.-B. P. Q. 119.)<sup>1</sup>

Notices of Judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 247-324. (N. J., F. D. 20751-20875); pp. 325-395. (N. J., F. D. 21601-21775); pp. 397-451. (N. J., F. D. 21776-21825.)<sup>1</sup>

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 18, no. 10, October 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

Crops and markets. Vol. 11, no. 9, September 1934. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.<sup>2</sup>

Experiment station record. Vol. 71, no. 3, September; no. 4, October 1934. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

Extension service review. Vol. 4, no. 5, September 1933. Illus. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.<sup>2</sup>

Journal of Agricultural Research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ each.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 49, no. 4. Illus. August 15, 1934.

#### Contents:

Studies on resistance of apple and other rosaceous plants to fire blight (Wis.-62). Luther Shaw.

The interrelationships of bark beetles and blue-staining fungi in felled Norway pine timber (Minn.-86). J. G. Leach, L. W. Orr, and Clyde Christensen.

Selenium injury to wheat plants and its inhibition by sulphur (G-919). Annie M. Hurd-Karrer.

Studies of derris, nicotine, paris green, and other poisons in combination with molasses in the control of the gladiolus thrips (K-253). Henry H. Richardson.

The forms of nitrogen in infusions of corn, timothy, red clover, tobacco, and red top (Mass.-40). Walter S. Eisenmenger.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Farmers' Bulletins	Leaflets	Other publications

Vol. 49, no. 7, illus. October 1, 1934.

**Contents :**

The nature and interaction of genes differentiating habit of growth in a cross between varieties of *Triticum vulgare* (Minn.-88). LeRoy Powers.

Wound infection and tissue invasion by *Plasmodiophora brassicae* (Wis.-63). Russell H. Larson.

White spotting in Duroc-Jersey swine (Idaho-12). Julius E. Nordby.

Genetics of resistance to bacterial wilt in alfalfa (G-926). R. A. Brink, F. R. Jones, and H. R. Albrecht.

Interrelation between cultural treatment of pecan trees, the size and degree of filling of the nuts, and the composition of the kernels (G-927). H. L. Crane and Max B. Hardy.

Inheritance of awn development in sorghums (G-929). J. B. Sieglinger, A. F. Swanson, and J. H. Martin.

Public roads. Vol. 15, no. 7, September 1934. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 40-43, October 2-23, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

### AGRICULTURAL ADJUSTMENT ADMINISTRATION

Compilation of Agricultural Adjustment Act as amended and acts relating thereto, as of June 29, 1934. 105 p. Price, 10¢.<sup>2</sup>

Safer markets and better prices for milk producers. C. C. Davis. 8 p. Illus. (G-22.)<sup>3</sup>

Reopening foreign markets for farm products. Extract from an address by Henry A. Wallace, Secretary of Agriculture, at the American Institute of Cooperation, Madison, Wis., July 11, 1934. 7 p. (G-27.)<sup>3</sup>

Amendment to license for shippers of fresh California deciduous tree fruits except apples. License series—license no. 7. 3 p. (M-11—Amdt. 1.)<sup>3</sup>

Order of the Secretary of Agriculture altering the price of extra fancy, clean, Japan, California rice, F. O. B. San Francisco, California, pursuant to marketing agreement [no. 10], as amended, for California rice industry. 2 p. (M-21—Amdt. 2.)<sup>3</sup>

Amendment to license [no. 26] for shippers of oranges and grapefruit grown in the State of Texas. 1 p. (M-42—Amdt. 1.)<sup>3</sup>

Order of the Secretary of Agriculture with reference to the amount of and basis of calculation of the conversion charge, pursuant to marketing agreement [no. 39], as amended, for southern rice milling industry. 2 p. (M-76—Amdt. 1.)<sup>3</sup>

Amendment to amended license [no. 11], for southern rice milling industry. 2 p. (M-76—Amdt. 2.); 2 p. (M-76—Amdt. 4.)<sup>3</sup>

Order of the Secretary of Agriculture with reference to the amount of minimum prices for rough rice, pursuant to marketing agreement [no. 39], as amended, for southern rice milling industry. 2 p. (M-76—Amdt. 3.)<sup>3</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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Except in the case of exchanges, publications are not sent free to residents of foreign countries.

### FARMERS' BULLETINS

Treatment and care of tree wounds. J. Franklin Collins, Bureau of Plant Industry. 38 p., illus. (F. B. 1726F.) Price, 5¢.

### TECHNICAL BULLETINS

The external anatomy of the *Parlatoria* date scale, *Parlatoria blanchardi* Targioni Tozzetti, with studies of the head skeleton and associated parts. F. S. Stickney, Bureau of Entomology and Plant Quarantine. 68 p., illus. (T. B. 421TB.) Price, 10¢.

The relation of fertilizers to the control of cotton root rot in Texas. H. V. Jordan, P. R. Dawson, J. J. Skinner, and J. H. Hunter, Bureau of Chemistry and Soils. 76 p., illus. (T. B. 426TB.) Price, 10¢.

The physical and chemical characteristics of the soils from the erosion experiment stations—second report. H. E. Middleton, C. S. Slater, and H. G. Byers, Bureau of Chemistry and Soils. 63 p., illus. (T. B. 430TB.) Price, 10¢.

Studies of the irrigation of pear orchards on heavy soil near Medford, Oreg. M. R. Lewis, Bureau of Agricultural Engineering and Oregon Agricultural Experiment Station; R. A. Work, Bureau of Agricultural Engineering; and W. W. Aldrich, Bureau of Plant Industry. 34 p., illus. (T. B. 432TB.) Price, 5¢.

The pepper weevil. J. C. Elmore and Roy E. Campbell, Bureau of Entomology and Plant Quarantine; and A. C. Davis, University of California, 28 p., illus. (T. B. 447TB.) Price, 5¢.

Storage of mill cane. J. I. Lauritzen, Bureau of Plant Industry, and R. T. Balch, Bureau of Chemistry and Soils. 30 p., illus. (T. B. 449TB.) Price, 5¢.

Cotton production in Egypt. P. K. Norris, Bureau of Agricultural Economics. 43 p., illus. (T. B. 451TB.) Price, 5¢.

Experiments with nitrogen fertilizers on cotton soils. J. J. Skinner, R. A. Lineberry, and J. E. Adams, Bureau of Chemistry and Soils; and C. B. Williams and H. B. Mann, North Carolina Agricultural Experiment Station. 28 p., illus. (T. B. 452T.) Price, 5¢.

### CIRCULARS

Fertilizer studies with sugar beets in the Arkansas Valley area, Colo., 1921-28. L. A. Hurst, Bureau of Chemistry and Soils; and A. W. Skuderna, Bureau of Plant Industry. 20 p., illus. (Cir. 319C.) Price, 5¢.

Methods of reestablishing buffalo grass on cultivated land in the Great Plains. D. A. Savage, Bureau of Plant Industry. 20 p., illus. (Cir. 328C.) Price, 5¢.

A program of waterfowl restoration. J. Clark Salyer II, Biological Survey. 11 p. (Cir. 339C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

Floods and accelerated erosion in northern Utah. Reed W. Bailey, Utah State Agricultural College; C. L. Forsling, Forest Service; and R. J. Becroft, Utah State Agricultural Experiment Station. 21 p., illus. (M. P. 196MP.) Price, 5¢.

Officials and organizations concerned with wildlife protection, 1934. Frank G. Grimes, Bureau of Biological Survey. 14 p. (M. P. 211MP.) Price, 5¢.

High-quality cream for butter making is easily produced by following 3 important steps. Bureau of Dairy Industry. 4 p., illus. (M. P. 213MP.) Price, 5¢.

The agricultural outlook for 1935. Bureau of Agricultural Economics, Agricultural Adjustment Administration, Extension Service, State agricultural colleges and extension services. 132 p. (M. P. 215MP.) Price, 10¢.

#### STATISTICAL BULLETINS

Stumpage and log prices for the calendar year 1933. Henry B. Steer, Forest Service. 71 p. (S. B. 49SB.) Price, 10¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Notices of Judgment under the Caustic Poison Act. Food and Drug Administration. November, 1934. 2 p. (N. J., C. P. 22-25.)<sup>1</sup>

Notices of Judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 469-525. (N. J., F. D. 20876-20950); pp. 45-83. (N. J., F. D. 22076-22175); pp. 85-102. (N. J., F. D. 22176-22200).<sup>1</sup>

Sweetpotato quarantine (Domestic). Notice of Quarantine No. 30 (revised), effective October 10, 1934. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.—A. 30.).<sup>1</sup>

Modification of pink bollworm quarantine regulations. Bureau of Entomology and Plant Quarantine. 3 p. (B. E. P. Q.—Q. 52.).<sup>1</sup>

Prosecutions under the interstate clause (sec. 6) of the Federal Seed Act. (July 1, 1933, to June 30, 1934; 15-39), Bureau of Plant Industry. 7 p. (S. R. A.—B. P. I. 19.).<sup>1</sup>

#### OTHER PUBLICATIONS

Napier grass (*Pennisetum purpureum*) a pasture and green fodder crop for Hawaii. 17 p., illus. (Hawaii Bull. 72.) Price, 5¢.

Parasites and parasitic diseases of cattle in Puerto Rico. H. L. Van Volkenberg, Puerto Rico Agricultural Experiment Station. 26 p., illus. (P. R. Bull. 36.) Price, 5¢.

Report of the Chief of the Bureau of Agricultural Economics, 1934. Nils A. Olsen. 29 p. Price, 5¢.

Report of the Chief of the Bureau of Animal Industry, 1934. J. R. Mohler. 52 p. Price, 5¢.

Report of the Chief of the Bureau of Biological Survey, 1934. J. N. Darling. 32 p. Price, 5¢.

Report of the Chief of the Bureau of Chemistry and Soils, 1934. Henry G. Knight. 54 p. Price, 5¢.

Report of the Chief of the Bureau of Dairy Industry, 1934. O. E. Reed. 24 p. Price, 5¢.

<sup>1</sup> These may be obtained from the issuing bureau.

Report of the Chief of the Bureau of Entomology, 1934. Lee A. Strong. 20 p. Price, 5¢.

Report of the Chief of the Bureau of Home Economics, 1934. Louise Stanley. 13 p. Price, 5¢.

Report of the Chief of the Bureau of Public Roads, 1934. Thomas H. MacDonald. 62 p. Price, 10¢.

Report of the Chief of the Food and Drug Administration, 1934. W. G. Campbell. 18 p. Price, 5¢.

Annual Report of the Chief of the Grain Futures Administration, 1934. J. W. T. Duvel. 9 p. Price, 5¢.

Report of the Chief of the Office of Experiment Stations, 1934. James T. Jardine. 8 p. Price, 5¢.

Report of the Chief of the Weather Bureau, 1932-33. C. F. Marvin. 137 p. For sale only, price, \$1.25 (Buckram).

Report of the Chief of the Weather Bureau, 1934. W. R. Gregg. 7 p. Price, 5¢.

Report of the Director of Information, 1934. M. S. Eisenhower. 12 p. Price, 5¢.

Report of the Director of Personnel and Business Administration, 1934. W. W. Stockberger. 15 p. Price, 5¢.

Report of the Librarian, 1934. C. R. Barnett. 11 p. Price, 5¢.

Report of the Solicitor, 1934. Seth Thomas. 24 p. Price, 5¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 18, no. 11, November 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 11, no. 10, October 1934. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information, reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

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<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Farmers' Bulletins	Leaflets	Other publications

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record.** Vol. 71, no. 5, November 1934. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

**Extension service review.** Vol. 5, no. 9, September 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of Agricultural Research.** Price \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 49, no. 6. Illus. September 15, 1934.

Contents:

- Relation between the chemical composition of citrus scale insects and their resistance to hydrocyanic acid fumigation (Calif.-68). A. R. C. Haas.
- Bacterial blight of carrot (Calif.-69). James B. Kendrick.
- Pecan root growth and development (Ga.-8). J. G. Woodroof and Naomi C. Woodroof.
- Persistent strands of the cotton root-rot fungus in Texas (G-924). Homer C. McNamara, R. E. Wester, and K. C. Gunn.

— Vol. 49, no. 6. Illus. September 15, 1934.

Contents: Continued

- Morphology and life history of the cotton root-rot fungus in Texas (G-925). David C. Neal, R. E. Wester, and K. C. Gunn.
- Effect of mildew and rust infection on dry weight and respiration of excised clover leaflets (G-928). Cecil E. Yarwood.
- Penetration, distribution, and effect of petroleum oils in apple (Mont.-23). Paul A. Young.

**Monthly weather review.** Vol. 62, no. 7, July 1934. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>2</sup> Not for general distribution.

**Public roads.** Vol. 15, no. 8, October 1934. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

**Weekly weather and crop bulletin.** Nos. 44-47, October 30-November 20, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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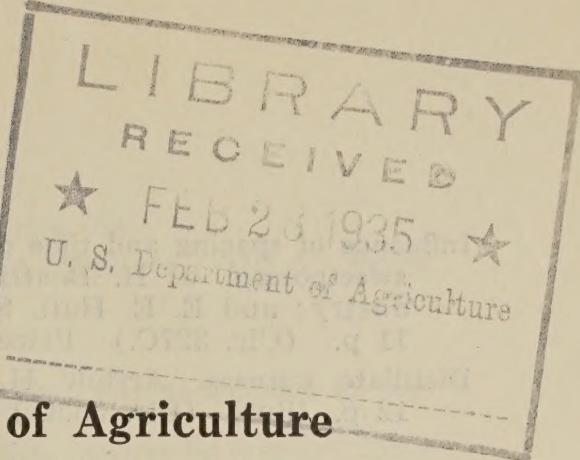
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## United States Department of Agriculture

### MONTHLY LIST OF PUBLICATIONS

DECEMBER 1934

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

#### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Horse-breeding suggestions for farmers. H. H. Reese, Bureau of Animal Industry.

20 p., illus. (F. B. 803FB., rev.) Price, 5¢.

Poultry houses and fixtures. M. A. Jull and A. R. Lee, Bureau of Animal Industry. 34 p., illus. (F. B. 1554F., rev.) Price, 5¢.

Pea diseases and their control. L. L. Harter, W. J. Zaumeyer, and B. L. Wade, Bureau of Plant Industry. 25 p., illus. (F. B. 1735FB.) Price, 5¢.

Stop gullies—Save your farm. Wilbur R. Mattoon, Forest Service. 14 p., illus. (F. B. 1737FB.) Price, 5¢.

#### LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

The barrel seed scarifier. W. M. Hurst, W. R. Humphries, and Roland McKee, Bureau of Plant Industry. 5 p., illus. (Leaf. 107L.) Price, 5¢.

Controlling kidney worms in swine in the Southern States. Benjamin Schwartz, Bureau of Animal Industry. 6 p., illus. (Leaf. 108L.) Price 5¢.

Why red clover fails. E. A. Hollowell, Bureau of Plant Industry. 6 p., illus. (Leaf. 110L.) Price, 5¢.

#### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Development of the swine nematode *Strongyloides ransomi* and the behavior of its infective larvae. John T. Lucker, Bureau of Animal Industry. 31 p., illus. (T. B. 437TB.) Price, 5¢.

Responses of strawberry varieties and species to duration of the daily light period. George M. Darrow and George F. Waldo, Bureau of Plant Industry. 32 p., illus. (T. B. 453TB.) Price, 5¢.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Use of farm machinery for corn-borer control in the one-generation area. R. M. Merrill, Bureau of Agricultural Engineering. 11 p., illus. (Cir. 321C.) Price, 5¢.

Influence of spacing and time of planting on the yield and size of the Porto Rico sweetpotato. J. H. Beattie and Victor R. Boswell, Bureau of Plant Industry; and E. E. Hall, South Carolina Agricultural Experiment Station. 11 p. (Cir. 327C.) Price, 5¢.

Distillate burners. Arthur H. Senner, Bureau of Agricultural Engineering. 12 p., illus. (Cir. 335C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Analysis of a rigid-frame concrete arch bridge. C. D. Geisler, Bureau of Public Roads. 16 p., illus. (M. P. 184MP.) Price, 5¢.

Motion pictures of the United States Department of Agriculture, 1934. Prepared by Division of Motion Pictures, Extension Service. 36 p. (M. P. 208MP.) Price, 5¢.

Meat dishes at low cost. Prepared by Foods and Nutrition Division, Bureau of Home Economics. 14 p., illus. (M. P. 216MP.) Price, 5¢.

#### STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Cold-storage holdings, year ended December 31, 1933, with comparable data for earlier years. (S. B. 48S.) Price, 5¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

To prevent the spread of splenetic or tick fever in cattle. Rule 1, revision 33. Effective on and after Dec. 1, 1934. Bureau of Animal Industry. 2 p. (B. A. I. Order 349).<sup>1</sup>

Service and Regulatory Announcements, Bureau of Animal Industry, October 1934. Pp. 87-94. (S. R. A.-B. A. I. 330.) Price, 5¢ each.

Notices of Judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 453-511. (N. J., F. D. 21826-21975.); Pp. 513-530. (N. J., F. D. 21976-22000.); Pp. 23-43. (N. J., F. D. 22026-22075.); Pp. 143-176. (N. J., F. D. 22301-22350.).<sup>1</sup>

Regulations for the administration of the Upper Mississippi River Wildlife and Fish Refuge. Bureau of Biological Survey. 3 p. (S. R. A.-B. S. 80.) December 1934.<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Texas, Potter County. (Number 33, series 1929.) 48 p., illus. Price, 40¢.

Virginia, Rockbridge County. (Number 4, series 1931.) 42 p., illus. Price, 35¢.

#### OTHER PUBLICATIONS

Plant material introduced by the Division of Foreign Plant Introduction, Bureau of Plant Industry, October 1 to December 31, 1932. (Nos. 101158-101584.) Price, 5¢.

Report of the Chief of the Bureau of Agricultural Engineering, 1934. S. H. McCrory. 23 p. Price 5¢.

Report of the Chief of the Bureau of Plant Industry, 1934. Knowles A. Ryerson. 36 p. Price, 5¢.

<sup>1</sup> These may be obtained from the issuing bureau.

**Report of the Forester, 1934.** F. A. Silcox. 50 p. Price, 5¢.

**Report of the Secretary of Agriculture, 1934.** Henry A. Wallace. 119 p. Price, 10¢. (Paper cover.)

#### PERIODICALS

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**Agricultural situation.** Vol. 18, no. 12, December 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

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Vol. 49, no. 8. Illus. October 15, 1934.

#### Contents :

- Effects of inbreeding on variability in alfalfa (Utah-33). George Stewart.
- Distribution of soil moisture under isolated forest trees (Conn. (New Haven-4). Herbert A. Lunt.
- The inheritance of quality in Trumbull and Michikof varieties of winter wheat (Ind.-23). W. W. Worzella.
- Effect of method of manufacture on the nutritive value of fishmeals as determined by growth studies with chicks (Ohio-16). P. R. Record, R. M. Bethke, and O. H. M. Wilder.
- Effect of method of manufacture on the nutritive value of fishmeals as determined by nitrogen-balance studies with rats (Ohio-17). O. H. M. Wilder, R. M. Bethke, and P. R. Record.
- Diameter distributions for old-field loblolly pine stands in Maryland (F-68). G. Luther Schnur.
- A disease of the English Morello cherry caused by *Bacterium pruni* (G-930). John C. Dunegan.
- Some plant-parasitic nemas, with descriptions of three new species (G-931). Gerald Thorne.

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Weekly weather and crop bulletin. Nos. 47-52, November 20-December 25, 1934. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

#### AGRICULTURAL ADJUSTMENT ADMINISTRATION

G-28. Adjustment for sugar beets. 6 p.<sup>3</sup>

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